Futaba Radio Control

Complete Systems

Models, Parts and

Accessories

1 9 9 0

Futaba

FUTABA RAD
THERE'S A NEW ER

RADIO CONTROL COMES OF AGE.

Explore the new possibilities in the world of radio control.

The latest construction techniques and materials make RC models lighter, faster and more manueverable than ever before. Pylon racers fly at speeds over 200 MPH. Electric powered cars are racing at over 70 MPH!

THE USA PYLON Team, led by World Champion Dave Shadel, on the victory podium.

A new generation of RC enthusiasts are rewriting the record books.

Futaba has the new generation of radio control systems. Systems to handle the challenge of World Class competition.

WINNING THE WORLD OVER.

PCM, first introduced by Futaba, is now the only way to fly in FAI World's. World Champions Dave Shadel (USA/F3D Pylon) and Yukihiro Dobashi (Japan/F3C Helicopter) both won with PCM 1024, our second generation system. Our 9VA/PCM 1024 systems were also the unanimous choice of the USA Pattern Team.

Our Magnum systems are no strangers to the winner's circle, either. Futaba racers have the PCM 1024 advantage with the Magnum 3PB, the most advanced pistolgrip system you can buy.

Rugged, high output Futaba servos have steered RC cars to World Championships in 1:12, 1:10 offroad and 1:8 scale.

THE ELECTRONIC EDGE.

The PCM 1024 advantage is just one way Futaba radio control gives top competitors the edge.

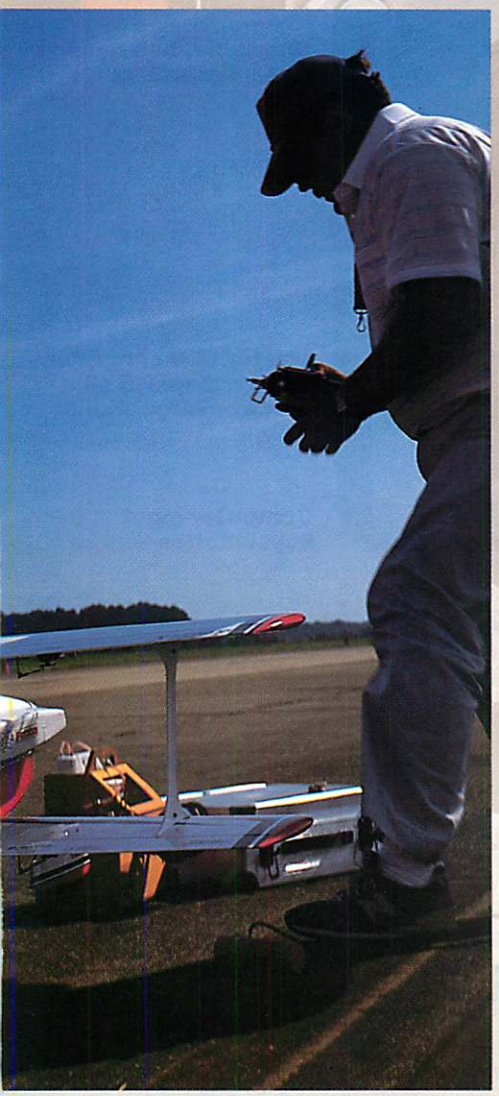
To combat the effects of high speed vibration, we pioneered the use of surface mount technology (SMT) in the assembly of servos and receivers. Thanks to robotic SMT assembly, our servos are the most reliable and efficient we've ever made.

Our commitment to competition is obvious, but our electronic testing, research and development has benefits for all flyers.

That's why features like dual rates, ATV and servo reversing can now be found on many of our popularly priced systems.

THE USA PATTERN Team at the 1989 FAI World's performed with Futaba 9VA systems.

IO CONTROL.
A ON THE HORIZON.



Features to look for:

1024

Futaba's exclusive PCM 1024 is the result of years of design and development. PCM 1024 gives the serious enthusiast the ultimate in servo response and resolution to perform to World Class standards.

20KHz 1991

Futaba gets you ready for 1991 today. Every one of our aircraft systems is up to current 1991 specifications. And only Futaba technology can offer the sport flyer economically priced AM systems that are 1991 ready.

PCM

Pulse Code Modulation-Futaba pioneered the use of digitally encoded signals to greatly reduce interference. Now Futaba can provide every level of flyer or driver PCM performance and reliability.

a custom fit for different sized hands. Even the spring tension can be set for just the right feel. Steering wheels adjustable for lock-to-lock throw and rapid access dual rates let RC racers quickly adapt to track conditions.

EVERYTHING YOU NEED IN RADIO CONTROL.

Look through this catalog and you'll also find another important reason the experts choose Futaba. In addition to the most extensive line of complete systems, we also have the most extensive and versatile line of accessories. MOS/FET electronic speed controls for electric cars, boats and planes, receivers, helicopter gyros and over a dozen different servos add limitless possibilities to your Futaba system.

AND MORE.

Because today's Futaba systems are better than ever before we can also back them better. New Futaba systems now carry a Full Year Warranty against manufacturing defects. Should you experience any problems, our new service facility in Irvine is the most advanced and efficient in the industry and is always ready to answer your questions.

TEAM FUTABA'S Chip Hyde is a fast-rising young star in international pattern competition.

Whether you dream of being the best or you're just a weekend hobbyist, now is the time to take on the new challenges of radio control.

Start with Futaba, the choice of RC enthusiasts that are as serious about their fun as you are.

HANDS ON ENGINEERING.

State-of-the-art electronics are great, but putting them at your fingertips is more of a science.

Quick, precise manuevers begin with a stable, comfortable grip.

Futaba transmitters are carefully designed and balanced, with their controls positioned for easy operation. The controls, in turn, are adjustable as well. Slantable gimbals with variable length sticks provide

9VAP

9VA/9 Channel PCM 1024 Aircraft system. R129DP receiver, four S5101 servos, computer LCD screen, ATV, AFR, ATR, programmable gang mixing, variable pitch propeller mixing, dual rate(3), exponential, adjustable VTR, timer, snap roll(3), servo reversing, mutual mixing, plug-in RF module, DSC. All NiCd. 50 and 72MHz. (Also available with four 9101 servos.)

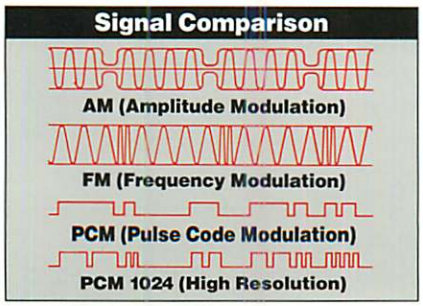
PCM 1024. The No. 1 Choice Of Champions All Over The World

When Futaba introduced PCM 1024 it took the RC world by storm.

PCM 1024 is a true, second generation PCM system, designed to give experienced flyers the most accurate and responsive control possible. We accomplished that goal by developing our own, exclusive 10-bit microprocessor.

The result is the ultimate in PCM performance, digitally encoded signal transmission with programmable fail safe plus the exceptional speed and response of PCM 1024.

WOLFGANG MATT of Liechtenstein flew PCM 1024 in F3A Pattern at the World Championships.



High Performance At The Highest Levels

PCM 1024 was first showcased in our incomparable 9VA system, selected for World Championship competition by the USA Pattern Team to win the team title and by top finalists like Wolfgang Matt, Ivan Kristensen and Giichi Naruke. The 9VA system is the ideal choice for the expert pattern flyer, but is by no means the only Futaba system equipped with PCM 1024. In F3D Pylon competition, where the slightest glitch could mean disaster, Dave Shadel won the World's with a 5UAP. And in the F3C Helicopter the title went to Yukihiro Dobashi and his 9VH.

PCM 1024 or PCM.FM or AM. Only Futaba can offer this complete range of signal transmission choices. And every Futaba aircraft system has the advanced electronics and receivers to meet the 1991/20KHz specifications.

1989 WORLD CHAMPION Dave Shadel's F3D Pylon racer is ready for takeoff.

7UAP/7 Channel PCM 1024 Aircraft system. R129DP receiver, four S148 servos, computer LCD screen, ATV, dual rate, exponential, programmable mixing, timer, snap roll(4), servo reverse, memory, plug-in RF module, trainer system. All NiCd. 50 and 72MHz.

7UAF/7 Channel FM Aircraft system. R128DF receiver, four S148 servos, computer LCD screen, ATV, dual rate, exponential, programmable mixing, timer, snap roll(4), servo reverse, memory, plug-in RF module, trainer system. All NiCd. 50 and 72MHz.

5UAP/5 Channel PCM 1024 Aircraft system. R129DP receiver, four S148 servos, control panel with ATV, dual rate and servo reverse, plug-in RF module, trainer system. All NiCd. 50 and 72MHz.

5UAF/5 Channel FM Aircraft system. R128DF receiver, four S148 servos, control panel with ATV, dual rate and servo reverse, plug-in RF module, trainer system. All NiCd. 50 and 72MHz.

5UA/5 Channel AM Aircraft system. R117H receiver, four S148 servos, control panel with ATV, dual rates and servo reverse, plug-in RF module, trainer system. All NiCd. 72 and 75(surface)MHz.

8SSA/8 Channel PCM Single Stick system. R128DP receiver, four S5101 servos, dual rate, VTR(3), mixing(7), ATL, ATV, DSC, servo reverse, tachotimer, plug-in RF module. All NiCd. 50 and 72MHz. (Also available with four S9201 servos.)

4NBL Attack S/4 Channel AM Aircraft system. R114H receiver, three S148 servos, servo reverse. Transmitter NiCd. 72 and 75 (surface) MHz.

4NBL Attack E/4 Channel AM Electric Aircraft system. MCR-4A receiver/speed control, two S133 servos, servo reverse. Transmitter NiCd. 72MHz.

4NBL Attack G/4 Channel AM Glider system. R114H receiver, two S133 servos, servo reverse, 250mAh and transmitter NiCd. 72MHz.

CONQUEST SYSTEMS

6NPK Conquest/6 channel PCM Aircraft system. R127DP receiver, four S148 servos, adjustable sticks, retract switch, dual rates (2), servo reverse, trainer system. All NiCd. 50 and 72MHz.

4NBP Conquest/4 channel PCM Aircraft system. R124DP receiver, three S148 servos, adjustable sticks, servo reverse, trainer system. All NiCd. 50 and 72MHz.

6NFK Conquest/6 channel FM Aircraft system. R127DF receiver, four S148 servos, adjustable sticks, retract switch, dual rates (2), servo reverse, trainer system. All NiCd. 50 and 72MHz.

4NBF Conquest/4 channel FM Aircraft system. R127DF receiver, three S148 servos, adjustable sticks, servo reverse, trainer system. All NiCd. 50 and 72MHz.

	4FG (Old)	4FG (New)	4NBF	4NBP	5FGK (AM)	5FGK (FM)	5UA	5UAF	5UAP	6FG (Old)	6FG (New)	6FGK (AM)	6FGK (FM)	6NFK	6NPK	7FGK (AM)	7FGK (FM)	7FGHI (FM)	7UAF	7UHF	7UAP	7UHP
4FG (Old)	●				●					●		●				●						
4FG (New)		●	●			●	●	●			●		●	●			●	●	■	■	■	■
4NBF		●	●			●	●	●			●		●	●			●	●	■	■	■	■
4NBP				●					●						●				▲	▲	▲	▲
5FGK (AM)	●				●					●		●				●						
5FGK (FM)		●	●			●	●	●			●		●	●			●	●	■	■	■	■
5UA		●	●			●	●	●			●		●	●			●	●	■	■	■	■
5UAF		●	●			●	●	●			●		●	●			●	●	■	■	■	■
5UAP				●					●						●				▲	▲	▲	▲
6FG (Old)	●				●					●		●				●						
6FG (New)		●	●			●	●	●			●		●	●			●	●	■	■	■	■
6FGK (AM)	●				●					●		●				●						
6FGK (FM)		●	●			●	●	●			●		●	●			●	●	■	■	■	■
6NFK		●	●			●	●	●			●		●	●			●	●	■	■	■	■
6NPK				●					●						●				▲	▲	▲	▲
7FGK (AM)	●				●					●	●	●				●						
7FGK (FM)			●			●	●	●					●	●			●	●	■	■	■	■
7FGHI (FM)			●			●	●	●			●			●			●	●	■	■	■	■
7UAF		■	■	▲		■	■	■	▲		■		■	■	▲		■	■	■	■	■	■
7UHF		■	■	▲		■	■	■	▲		■		■	■	▲		■	■	■	■	■	■
7UAP		■	■	▲		■	■	■	▲		■		■	■	▲		■	■	■	■	▲	▲
7UHP		■	■	▲		■	■	■	▲		■		■	■	▲		■	■	■	■	▲	▲

THE FUTABA TRAINER SYSTEM

The Futaba trainer system allows student and instructor to link their transmitters via a special cord (M-TC-AM for AM systems, M-TC-FM for FM/PCM). New encoder technology limits this use for some older units. This chart should be used to check compatibility or PPM/PCM setting.

- ● Systems are compatible
- ■ Pulse Position Modulation must be set with mode selector
- ▲ Pulse Code Modulation must be set with mode selector

FUTABA FLYER
Yukihiro Dobashi of Japan won the F3C Helicopter World Championship.

HELICOPTER SYSTEMS

9VH/9 Channel PCM 1024 Helicopter system. R129DP receiver, five S9201 servos, computer LCD screen, ATV, AFR, ATR, programmable gang mixing, pitch mixing, CCPM mixing(5), dual rate(3), exponential, adjustable VTR, 4-way timer, snap roll(3), servo reverse, mutual mixing, DSC, 1000mAh receiver NiCd, plug-in RF module. 50 and 72MHz.

7UHP/7 channel PCM 1024 Helicopter system. R129DP receiver, five S5101 servos, computer LCD screen, ATV, dual rate, exponential, programmable mixing, timer, invert switch, hover memory, pitch mixing, tail rotor mixing, servo reverse, memory, trainer system, plug-in RF module 1000mAh receiver NiCd. 50 and 72MHz.

7UHF/7 Channel FM Helicopter system. R128DF receiver, four S5101 servos, computer LCD screen, ATV, dual rate, exponential, programmable mixing, timer, invert switch, hover memory, pitch mixing, tail rotor mixing, servo reverse, memory, trainer system, plug-in RF module 1000mAh receiver NiCd. 50 and 72MHz.

6NHP/6 Channel PCM Helicopter system. R128DP receiver, four S148 servos, invert switch, dual rate(2), mixing, servo reverse, plug-in RF module. All NiCd. 50 and 72MHz.

5NLH/5 Channel FM Helicopter system. R128DF receiver, four S148 servos, mixing(3), AST(2), hover memory(fixed), throttle hold, idle up, servo reverse. All NiCd. 50 and 72MHz.

8SSH/8 Channel Single Stick PCM Helicopter system. R128DP receiver, five S9201 servos, invert switch, dual rate/VTR, mixing, ATL, ATV, DSC, servo reverse, tachotimer, plug-in RF module 1000mAh receiver NiCd. 50 and 72MHz.

GYROS

G-132 Single axis gyro (standard)
G-152 Single axis gyro (PCM/FM)
Power required: 4.8v shared (w/receiver) or 6.0v external
Current drain: 20mA (amplifier at 4.8v) 100mA (motor)
Gyro body: 1.57" x 1.65" x 1.34"/2.86 oz.
Control amplifier: 1.73" x 2.28" x 0.63"/1.61 oz.
Control box: 0.94" x 1.34" x 0.59"/0.54 oz.
$129.95

G133BB Ball bearing, single axis gyro (standard)
G153BB Ball bearing, single axis gyro (PCM/FM)
Power required: 4.8v shared (w/receiver) or 6.0v external
Current drain: 20mA (amplifier @4.8v) 100mA (motor)
Gyro body: 1.57" x 1.65" x 1.34"/2.86 oz.
Control amplifier: 1.73" x 2.28" x 0.63"/1.61 oz.
Control box: 0.94" x 1.34" x 0.59"/0.54 oz.
$149.95

G134 Single axis, 2-piece gyro (standard)
G154 Single axis, 2-piece gyro (PCM/FM)
Power required: 4.8v
Current drain: 20mA (amplifier) 100mA (motor)
Gyro body: 1.57" x 1.65" x 1.60"
Amplifier: 1.06" x 1.89" x 0.63"
System weight: 3.6 oz.
$89.95

3PB

Plug-in RF Module (75MHz only)

Steering wheel lock-to-lock adjustable

Rubber padded ulnar area

Hand strap

Direct Servo Control

Steering dual rate

One-touch electronic trims are supplemented by audible signals, LED readouts and sub trimming for precise control.

3PB Magnum/3 Channel PCM 1024 Pistol Grip system. R1131P BEC receiver, two S9601 servos, electronic trim with sub trim, programmable mixing for four wheel steering, boats, dual rate, exponential(2), servo reverse, plug-in RF module, adjustable steering lock-to-lock angle and throttle trigger position, DSC, transmitter NiCd. 75MHz only. (Also available with two S9301 or two S132H servos.)

The control panel of the Magnum PCM gives you access to every option imaginable. ATV, exponential and sub-trim let you fine tune steering and throttle servo action to suit your driving style, car or track.

IT'S LOADED

You're looking at the most potent pistolgrip radio you can buy.

When it comes to features and performance, it's loaded. But only the competition needs to be worried.

Futaba's Magnum PCM fires out its commands in high speed, high resolution 1024 Pulse Code Modulation.

Virtually stepless PCM 1024 is a Futaba exclusive, and for response and resistance to interference nothing even comes close.

And Futaba's pioneering efforts in PCM have also resulted in a remarkably compact 3 channel receiver.

On the track, Magnum PCM one-touch, electronic trim and adjustable dual rate give you precise control over changing conditions.

Steering wheel throw, spring tension and throttle limit can also be easily changed on the transmitter.

Another important feature is Direct Servo Control (DSC), which lets you check and adjust settings without turning the transmitter on.

Developed and competition-tested for all types of RC racing, the Magnum PCM can handle anything on wheels or water.

From high-powered 1:8 gas cars to high jumping 1:10 offroad racers, Futaba's reliable, surface-mounted electronics can take it. A complete selection of servos and MOS/FET speed controls is available.

We've even included twin-servo steering control, four wheel steer (4WS) differential and torque-steer compensation mixing for boats.

The Magnum PCM leads Futaba's extensive line-up of surface systems, which includes the new 2PD and 2PBKA pistolgrips and four dual stick models. Most offer a selection of servo options to best suit your model.

And for electric cars and boats, the Magnum Junior and Magnum Sport are also available with our MC112B MOS/FET electronic speed control.

SURFACE SYSTEMS

2PD Magnum/2 channel Pistol Grip system. R102JE BEC receiver, two S9301 servos, dual rate, sub trim, servo reverse, ATV(2). 27 and 75MHz. (Also available with two S9601 or two S132H servos.)

2PBKA Magnum Junior/2 Channel Pistol Grip system. R102JE BEC receiver, two S148 servos, steering dual rate, fine trim, throttle ATV, servo reverse. 27 and 75 MHz. (Also available with two S132H.)

2PBKA Magnum Junior ESC/2 Channel Pistol Grip system with speed control. R102JE BEC receiver, one S148 servo, MC112B MOS/FET electronic speed control with reverse, steering dual rate, fine trim, throttle ATV, servo reverse. 27 and 75MHz. (Also available with one S132H.)

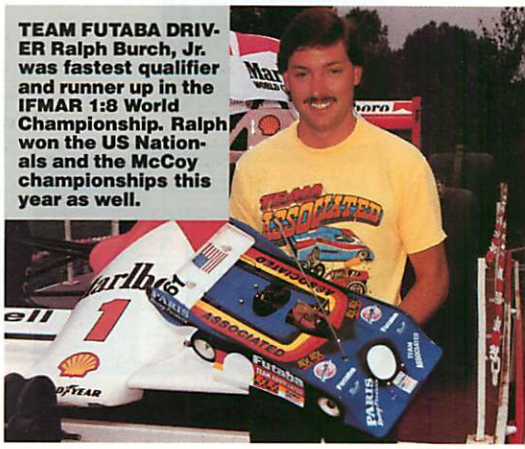
2PB Magnum Sport/2 Channel Pistol Grip system. R102JE BEC receiver, two S148 servos, servo reverse. 27 and 75MHz.

2PB Magnum Sport ESC/2 Channel Pistol Grip system with speed control. R102JE BEC receiver, one S148 servo, MC112B MOS/FET electronic speed control, servo reverse. 27 and 75MHz.

3EGX/3 Channel Dual Stick Boat system. R3L(27MHz) or R3F(75MHz) receiver, two S31S watertight servos, exponential(2), rudder dual rate, ATV, plug-in RF module, All NiCd. 27 and 75MHz.

2NBR Attack R/2 Channel Dual Stick system. R102GR BEC receiver, two S148 servos, servo reverse. 27, 75 and 72(aircraft)MHz.

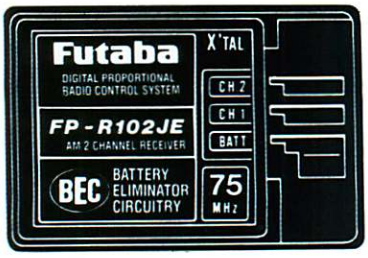
2NCS Attack/Sport/2 Channel Dual Stick system, R102JE BEC receiver, two S148 servos. 75 and 72(aircraft)MHz.



TEAM FUTABA DRIVER Ralph Burch, Jr. was fastest qualifier and runner up in the IFMAR 1:8 World Championship. Ralph won the US Nationals and the McCoy championships this year as well.

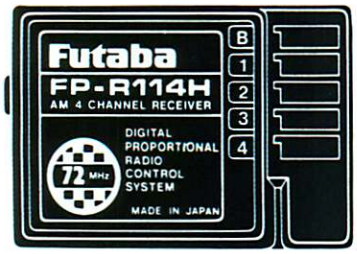
RECEIVERS

All receivers shown actual size



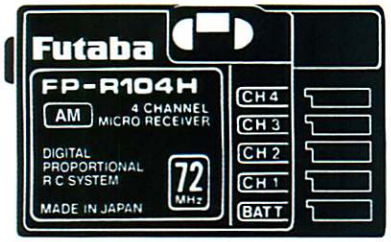
R102JE 2 Channel/BEC
1.30" x 1.86" x 0.78"
0.88 oz./27, 72 & 75MHz
$59.95

R113IP 3 Channel
Micro PCM 1024
20KHz spacing
1.13" x 1.69" x 0.63"
0.72 oz./75MHz only
$199.95



R114H 4 Channel
20KHz spacing
1.31" x 1.87" x 0.81"
0.95 oz./72 & 75MHz
$89.95

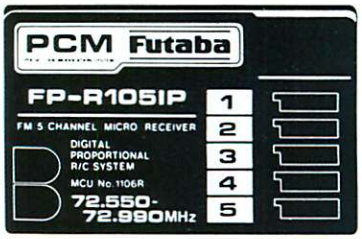
20KHz 1991



R104H 4 Channel
Micro
1.24" x 2.00" x 0.75"
1.0 oz./27, 72 and 75MHz
$94.95

MCR-4A 4 Channel
Integrated MOS/FET
electronic throttle
1.24" x 2.92" x 1.12"
1.5 oz./72MHz only
Capacity: 100A (continuous)
450A (surge)
Motor: 280 to 540 size
$159.95

20KHz 1991

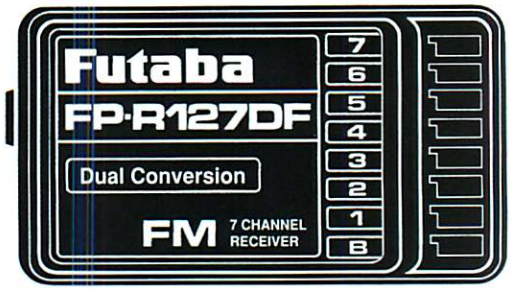


R105IP 5 Channel/PCM
1.31" x 1.97" x 0.81"
1.19 oz./50, 53 and 72 MHz
FM/PCM
$189.95

20KHz 1991 PCM

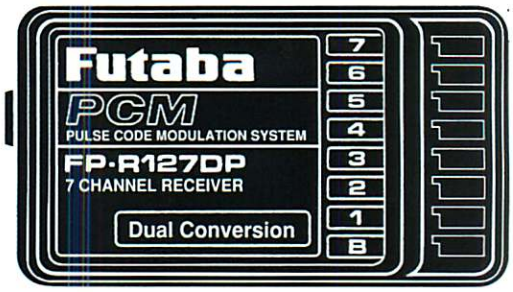
R117H 7 Channel
20KHz spacing
1.38" x 2.43" x 0.81"
1.1 oz/72 & 75MHz
$129.95

20KHz 1991



R127DF 7 Channel
FM/20KHz spacing
1.39" x 2.52" x 0.82"
1.5 oz./50 & 72MHz
$149.95

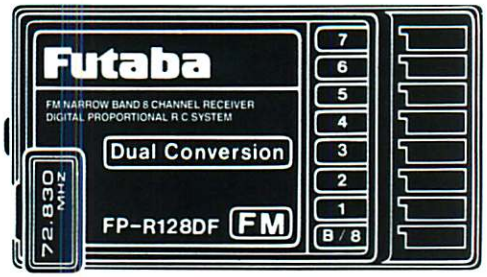
20KHz 1991



R127DP 7 Channel
PCM/20KHz spacing
1.39" x 2.52" x 0.82"
1.5 oz./50 & 72MHz
$229.95

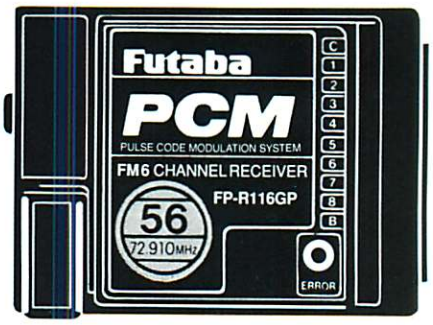
R124DP 4 Channel
PCM/20KHz spacing
1.39" x 2.52" x 0.82"
1.4 oz./50 & 72MHz
$199.95

PCM 20KHz 1991



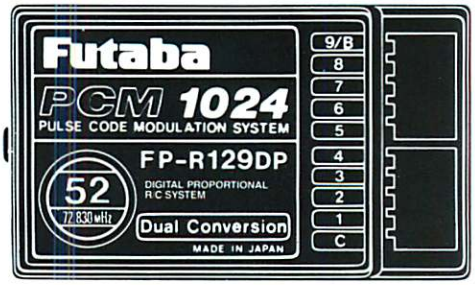
R128DF 8 Channel
FM/20KHz spacing
1.39" x 2.51" x 0.82"
1.3 oz./50 & 72MHz
$179.95

20KHz 1991



R116GP 6 Channel
PCM/20KHz spacing
1.65" x 2.23" x 0.94"
1.9 oz./50, 53 and 72MHz
FM/PCM
$179.95

PCM



R129DP 9 Channel
Dual Conversion
PCM 1024
20KHz spacing
1.48" x 2.48" x 0.97"
1.5 oz./50 & 72MHz
$259.95

20KHz 1991

R128DP 8 Channel
Dual Conversion
PCM/20KHz Spacing
$249.95

PCM

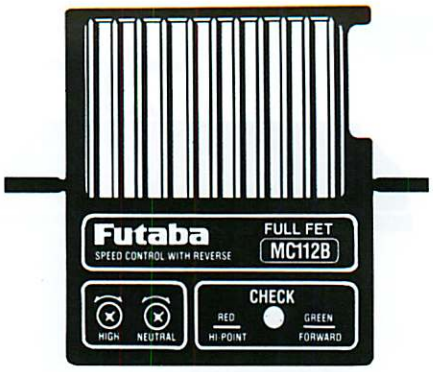
Replacement receivers (not shown): R2H/$69.95, R4H/$94.95, R7H/$114.95

ELECTRONIC SPEED CONTROLS

MC111B (MC11B)
Competition: MOS/FET electronic speed control.
Capacity: 7.2v (6-cell) to 8.4v (7-cell)/130A (continuous), 500A (surge).
Variable braking with reverse.
Includes LED check circuits, motor connectors.
MC111B uses J-type connector, MC11B uses 3-pin connector.
VDR: .008 ohm.
1.81" x 1.59" x 0.78"/2.16 oz.
$109.95

MC9T (MC109T) FET (7)
Electronic Speed Control
Competition/Proportional forward with brake and check circuits.
Capacity: 6-9.6v/150A (continuous) 450 (surge)
Voltage drop resistance: .007 ohm
1.17" x 1.59" x 0.61"/1.0 oz.
$ 159.95

MC10T (MC110T) FET (6)
Electronic Speed Control
Compact/Proportional forward with brake.
Capacity: 6-9.6v/75A (continuous) 300A (surge)
Voltage drop resistance: .010 ohm
1.27" x 1.46" x 0.55"/0.9 oz.
$129.95



MC112B (MC12B)
Competition: MOS/FET electronic speed control.
Capacity: 7.2v (6-cell) to 8.4v (7 cell)/100A (continuous), 400A (surge).
Braking and one-speed reverse.
Includes LED check circuits, motor connectors.
MC112B uses J-type connector, MC12B uses 3-pin connector.
VDR: .009 ohm.
$79.95

MC4-20 Speed control system
Proportional forward and reverse
Capacity: 24v/20A
Includes: MC4 controller, MC4-F20 filter and MC4-P20 driver module.
$119.95

MC4-10 Speed control system Proportional forward and reverse
Capacity: 24v/10A
Includes: MC4 controller, MC4-F10 filter and MC4-P10 driver module.
$99.95

MC4 Controller unit module
(requires filter and driver to operate)
1.34" x 2.06" x 0.73"/0.8 oz.
$39.95

MC116
Competition Electronic Speed Control
Proportional forward with brake and check circuits
Built-in receiver power supply
FET Rating: 210A (Continuous)
1260A (Surge)
Voltage Drop Resistance: .0035 ohm
1.43" x 1.56" x 0.62"/1.4 oz.
$159.95

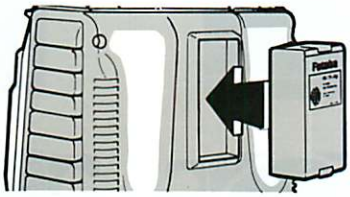
MC4-F10 10A noise filter
2.00" x 1.06" x 0.50"/0.35 oz.
$7.95

MC4-F20 20A noise filter
2.00" x 1.06" x 0.50"/0.50"/0.35 oz.
$11.95

MC4P10 10A power driver module
2.64" x 2.83" x 1.63"
5.5 oz.
$79.95

MC4-P20 20A power driver module
2.81" x 3.12" x 1.62"
6.6 oz.
$99.95

FREQUENCY MODULES



TD-27AM
3EGX/27MHz AM
$44.95

TD-75AM
3EGX/75MHz AM
$44.95

TG-27AM
3PG Magnum/27MHz AM
$44.95

TG-75AM
3PG Magnum/75MHz AM
$44.95

TF-50FM
PCM and G-Series/50MHz FM
$59.95

TF-53FM
PCM and G-Series/53MHz FM
$59.95

TF-72AM
G-Series/72MHz AM
$44.95

TF-72FM
PCM and G-Series/72MHz FM
$59.95

TF-75AM
G-Series/75MHz AM
$44.95

TK-50PCM
9VA and 9VH/72MHz FM
$69.95

TK-72PCM
9VA and 9VH/72MHz FM
$69.95

TL-75FM
3PB Magnum/75MHz FM
$69.95

TP-72AM
5UA/72MHz AM
$44.95

TP-75AM
5UA/75MHz AM
$44.95

TP-50FM
5UAF, 5UAP, 7UAF, 7UAP, 7UHF, 7UHP/50MHz FM
$64.95

TP-72FM
5UAF, 5UAP, 7UAF, 7UAP, 7UHF, 7UHP/72MHz FM
$64.95

ACCESSORIES

9 Ch. Case
Lightweight alloy field case
$79.95

DT-1 Digital tachotimer 4-function, LCD readout combination flight timer/tachometer $89.95

Curl Cord 3PG Magnum remote NiCd extension cord $16.95

FC-1 Audible flight checker Monitors receiver battery/low voltage warning. Aids model location/triggers signal when transmitter is switched off. (AM and FM only.)
Body: 1.36" x 2.11" x 0.77"
0.78 oz.
Buzzer: 1.02" x 1.02" x 0.77"
0.67 oz.
$39.95

M-TC-AM AM Trainer cord $14.95

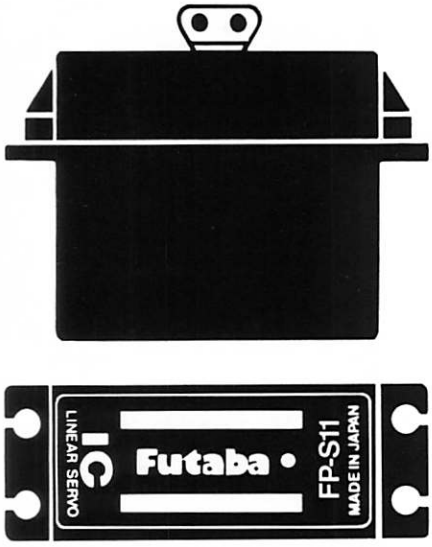
M-TC-FM G-Series FM trainer cord $14.95

TSC-1 PCM Tacho-sensor $15.95

SERVOS

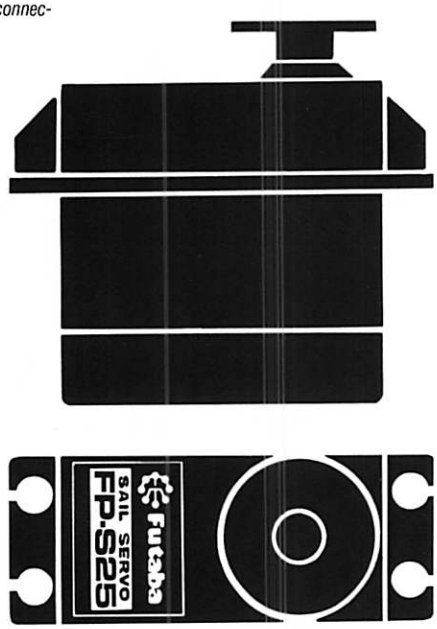
All servos shown actual size

NOTE: *"S" preceding servo number designates standard Futaba 3-pin mini connector and 1320us neutral. "S100" designates version with J-connectors and 1520us neutral.*



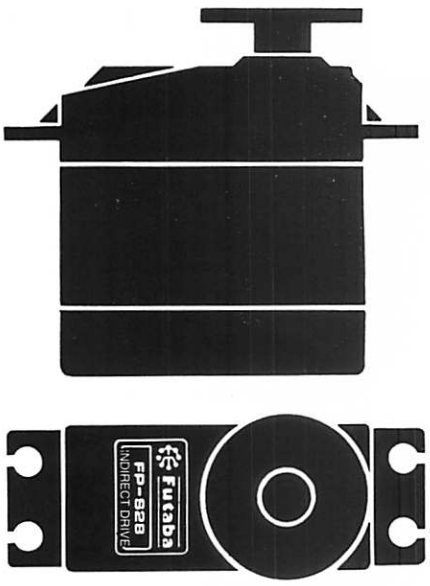
S11 $54.95
Linear output servo
0.75" x 1.75" x 1.50"
1.4 oz./25.1 oz./in.

S110(S10) $129.95 (not shown)
Heavy duty sail winch
1.50" x 2.93" x 3.50"
8.8 oz./122.3 oz./in.
Stroke: 21.8"/3.8 sec.

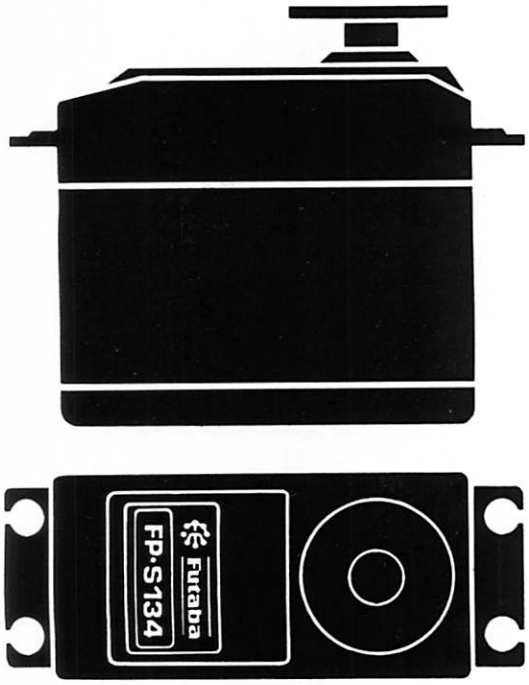


S125 (S25) $59.95
Arm type sail control servo
140 degrees (max.)
0.88" x 1.75" x 1.69"
2.3 oz./129.3 oz./in.
0.62 sec./60 degrees
140 degree/arm type

S114(S14) $129.95 (not shown)
High torque servo
1.50" x 2.93" x 3.50"
8.8 oz./167 oz./in.
0.29 sec./60 degrees

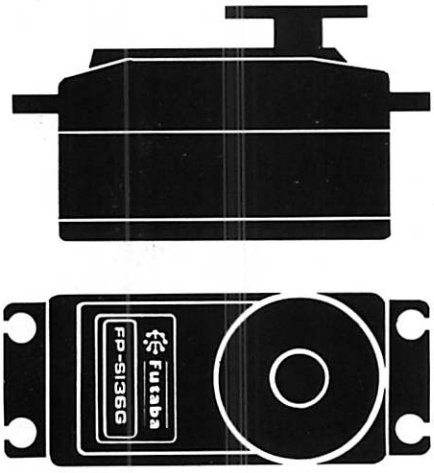


S128 (S28/S28L) $39.95
Standard servo
0.75" x 1.56" x 1.56"
1.8 oz./48.7 oz./in.
0.24 sec./60 degrees

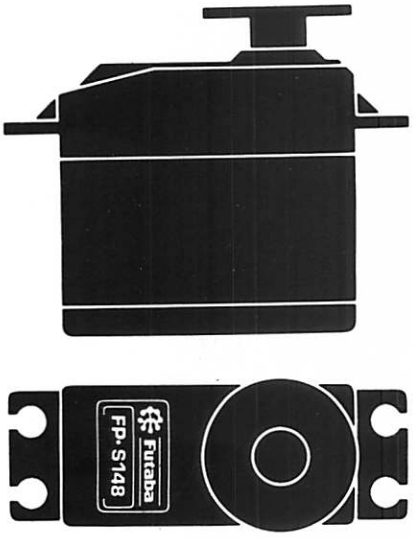


S134 $64.95
Quarter scale servo
1.14" x 2.32" x 1.97"
2.7 oz./112.6 oz./in.
0.22 sec./60 degrees

S134G (S34G) $74.95
Quarter scale retract
1.14" x 2.32" x 1.97"
2.8 oz./173.8 oz./in.
0.33 sec./60 degrees

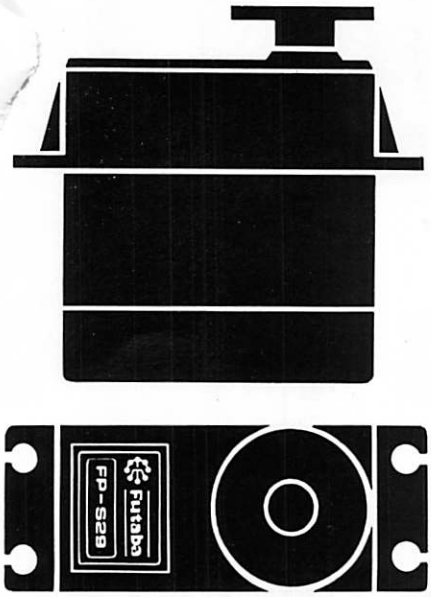


S136G (S36G) $69.95
Compact landing gear retract
0.87" x 1.75" x 1.00"
1.48 oz./76.4 oz./in.
0.50 sec./60 degree

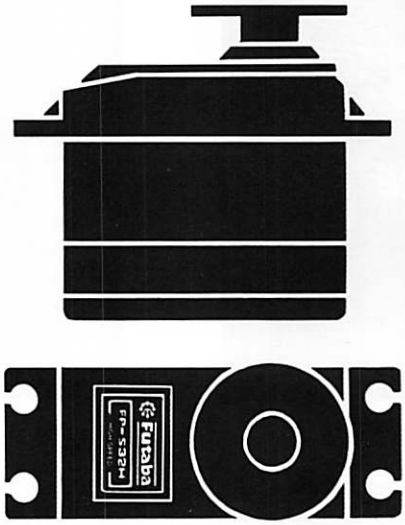


S148 (S48) $39.95
Precision servo
0.77" x 1.59" x 1.58"
1.5 oz./42.0 oz./in.
0.22 sec./60 degrees

SERVOS

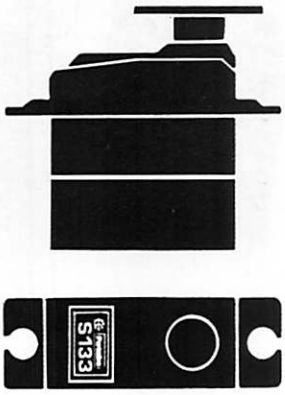


S129 (S29/S29L) Heavy duty, water tight servo
$44.95 0.88″ x 1.75″ x 1.69″
2.1 oz./48.7oz./in.
0.25 sec./60 degrees

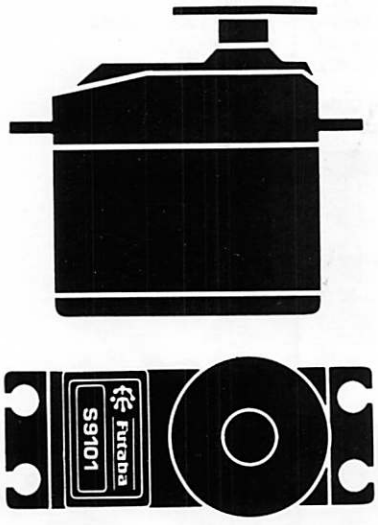


S132 (S32/S32L) Mini servo
$54.95 0.68″ x 1.43″ x 1.18″
1.1 oz./33.4 oz./in.
0.16 sec./60 degrees

S132H (S32H/S32HL) High speed mini servo
$54.95 0.68″ x 1.43″ x 1.18″
1.1 oz./25.0 oz./in.
0.13 sec./60 degrees

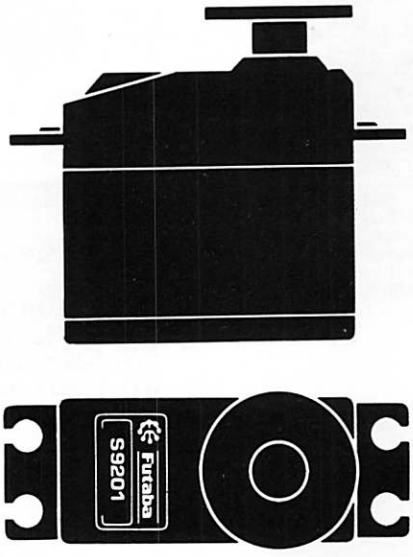


S133 (S33/S33L) Micro precision servo
$59.95 0.50″ x 1.06″ x 1.12″
0.6 oz./27.8 oz./in.
0.22 sec./60 degrees



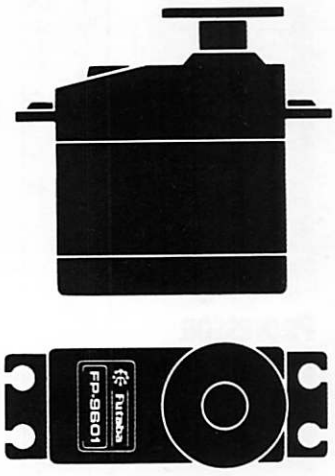
S9101 Coreless, BB servo
$79.95 0.77″ x 1.52″ x 1.36″
1.5 oz./41.7 oz./in.
0.17 sec./60 degrees

S5101 (S130) Dual Ball Bearing servo
$59.95 0.77″ x 1.52″ x 1.36″
1.4 oz./55.6 oz./in.
0.24 sec./60 degrees



S9201 (Air/Heli)
S9301 (S131S) Coreless BB servo
$79.95 0.79″ x 1.59″ x 1.40″
1.7 oz./69.5 oz./in.
0.22 sec./60 degrees

S131SH (S31SH) Coreless BB servo
$79.95 0.79″ x 1.59″ x 1.40″
1.7 oz./44.5 oz./in.
0.16 sec./60 degrees



S9601 (S135/S35) Coreless mini servo
$79.95 Metal gear/Ball bearing output
0.62″ x 1.21″ x 1.18″
1.1 oz./36.1 oz./in.
0.17 sec./60 degrees

RADIO CONTROL MODELS

FUTABA FX10

Futaba's FX10/All Terrain offroad car kit combines the high speeds and excitement of RC racing with the ease of assembly of a well engineered model kit. Designed by Futaba's international team of RC car experts, the FX10 incorporates many of the features of serious competition models and is as much fun to build as it is to drive. Features include 4 wheel, independent suspension with 4-link rear, monocoque racing chassis, sealed gearbox and differential, 540/05 class motor, 3-stage speed controller and lightweight polycarbonate body shell.

SPECIFICATIONS:

Scale	1:10	Wheelbase	10.24"
Overall length	17.13"	Weight (approx.)	50 oz.
Rear track	7.72"	Radio required	2 Ch. (BEC)/2 servo
Front track	7.36"		

REPLACEMENT PARTS

FX10-001	SPARE BODY SET	$30.00	FX10-013	UPRIGHT SET (LEFT AND RIGHT)	$5.50
FX10-002	FRONT TIRE/ WHEEL SET	13.00	FX10-014	RECEIVER ANTENNA TUBE	1.00
FX10-003	REAR WHEEL/TIRE SET	15.00	FX10-015	DECAL SHEET	3.25
FX10-004	CHASSIS	12.00	FX10-016	SCREW BAG-A	2.25
FX10-005	A-PARTS	11.00	FX10-017	SCREW BAG-B	3.50
FX10-006	B-PARTS	7.50	FX10-018	SCREW BAG-C	3.50
FX10-007	C-PARTS	9.50	FX10-019	SCREW BAG-D	6.00
FX10-008	D-PARTS	8.50	FX10-020	METAL PARTS (BODY PINS, WRENCHES)	6.00
FX10-009	Q-PARTS	2.00	FX10-021	540/05 MOTOR	15.00
FX10-010	E-PARTS	11.50	FX10-022	18 TOOTH/19 TOOTH PINION GEARS	6.00
FX10-011	BUMPER	4.00	FX10-023	FRONT COIL SPRING AND DAMPER (2)	2.50
FX10-012	GEAR SET (DIFFERENTIAL)	4.00	FX10-024	REAR COIL SPRING AND DAMPER (2)	3.00
			FX10-025	3-STAGE SPEED CONTROLLER	15.00

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PROFESSOR

REPLACEMENT PARTS

H001	MOTOR MOUNT SET	$ 3.95	H007	PROPELLER SHAFT	3.95
H002	GEAR CASE SET	9.95	H008	PROFESSOR DECALS	9.95
H003	BATTERY HOLDER SET	3.95	H009	INSTRUCTIONS	2.95
H004	PROPELLER SET	3.95	H010	STABILIZER	29.95
H005	COWLING	11.95	H011	MAIN WING	74.95
H006	MAIN GEAR SET	9.95	H012	FUSELAGE	59.95
H3009	METAL WRENCH SET	1.95			

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CHIPMUNK

REPLACEMENT PARTS

H001	MOTOR MOUNT SET	$ 3.95	H1008	INSTRUCTIONS	2.95
H1001	PROPELLER ADAPTER	7.95	H1009	DECAL	17.95
H1002	38 TOOTH GEAR	2.95	H1010	VERTICAL/HORIZONTAL STABILIZER	34.95
H1003	16 TOOTH GEAR	9.95	H1011	MAIN WING	79.95
H1004	PLASTIC PARTS SET	2.95	H1012	FUSELAGE	69.95
H1005	GEAR DOWN UNIT SET	18.95	H2500-015	LF940 BEARING (1)	9.95
H1006	LANDING GEAR SET	3.95	H2500-039	L940ZZ BEARING (2)	9.95
H1007	COWLING	9.95	H2531-001	SCREW SET (10)	2.95

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CANDY

Get into radio controlled model boating in a hurry with Candy, the RC speedboat that's ready for fun. Factory-assembled and Futaba-equipped, Candy zips through water with a sleek, V-shaped hull of high impact ABS for ski boat speed and maneuverability.

Unsinkable by virtue of an expanded polystyrene radio tray/insert, Candy is extremely stable, easy for even novice sailors to control. Power comes from a 540/High Output electric motor, with both speed and power screws.

Candy's 2 channel Futaba radio system comes installed, too. All you do is attach the screw, apply the decals and add batteries and water.

Candy Outfit One

2P-C-27

Candy and the pistol grip Magnum 2P gives you steering wheel control with R102GR/BEC receiver and two S148 servos installed. Flat-wound, resistor speed control with reverse. 27Mhz.

Candy Outfit Two

2P-MC-C-27N

Nothing could be sweeter than Candy with Futaba's 2P system plus R102GR/BEC receiver and S148 servo, and MC112B MOSFET electronic speed control. High efficiency, maintenance-free MC112B features proportional forward with reverse and built-in check circuitry. 27Mhz.

INCLUDES 7.2v/1200mAH NiCd and Charger.

Candy Outfit Three

2NBL-MC-C-27N

Candy 2NBL system with R102GR/BEC receiver, S148 servo, and MC112B MOSFET electronic speed control features proportional forward with reverse and built-in check circuitry. 27Mhz.

INCLUDES 7.2v/1200mAH NiCd and Charger.

REPLACEMENT PARTS

CD-1	MOTOR	$14.95	CD-8	TOOLS (WRENCHES, SCREWS)	$2.95
CD-2	RESISTOR SPEED CONTROL	12.95	CD-9	ROD SET BALL LINK, (ROD END, ROD)	2.95
CD-3	UNIVERSAL JOINT (A & B)	2.95	CD-10	VELCRO/SERVO TAPE	2.95
CD-4	RUDDER SET W/SCREW	2.95	CD-11	COCKPIT COVER	6.95
CD-5	PROPELLER "L" (POWER)	2.95	CD-12	STERN HATCH COVER	6.95
CD-6	PROPELLER "S" (SPEED)	2.95	CD-13	CABIN COVER	6.95
CD-7	DRIVE SHAFT AND PIPE	6.95	CD-14	DECAL SHEET	6.95

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

RADIO CONTROL MODELS

THE HIROBO · FUTABA PROFESSOR

With the new Professor Almost-Ready-to-Fly (ARF) radio control trainer, Futaba has made electric-powered RC flying easier than ever.

Extremely stable design and quiet operation make the Professor the ideal first plane for beginners. Special, lightweight materials are used for exceptional strength and rigidity, and built-up, pre-covered wing, stab and tail make assembly simple and easy.

Pushrods and 540SH motor are factory installed.

SPECIFICATIONS:

Type:	Electric powered/trainer	Battery:	7.2v/1200mAh NiCd (not included)
Length:	35.04"		
Wing area:	400 sq. in.	Radio:	3-4 channel system with electronic speed control (MC109T)and 2 servos. 4NBL Attack E recommended (Radio not included).
Weight:	2.02 lbs. (including radio and NiCd)		
Motor:	RS540SH w/3:1 gearbox		

THE HIROBO · FUTABA CHIPMUNK

The new Hirobo/Futaba Chipmunk is designed for the more experienced RC flyer and brings a whole new level of performance and excitement to electric flight.

This Almost-Ready-To-Fly kit performs aerobatics with precision and ease in the hands of advanced pilots.

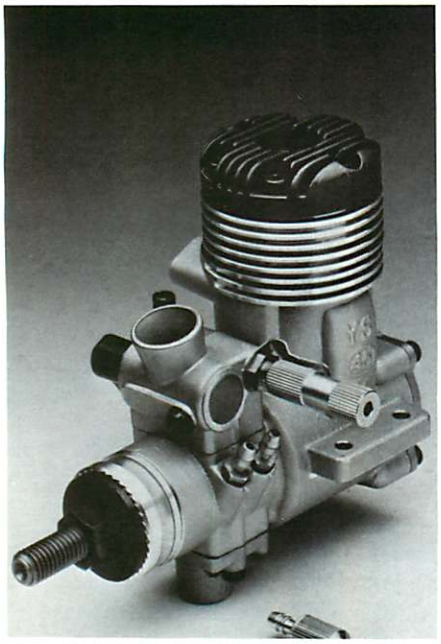
Fuselage and wings are already finished and pre-covered in colorful, realistic graphics. Also included in the kit are landing and all the necessary linkages and hardware. Pushrods and motor are factory installed, reducing construction time to a minimum.

Because weight is critical, the Futaba 4NBL Attack E system, with MCR-4A and micro S133 servos is recommended.

SPECIFICATIONS:

Type	Electric powered, aerobatic	Motor	Top Gun 9017 w/BB reduction gearbox
Length	900mm (35.43")	Battery	7.2v-8.4v/1200mAh NiCd (NOT included)
Width	1200mm (47.24")		
Wing Area	22.5d m2 (360 sq. inch)	Radio	4 channel system with electronic speed control (MC109T)and 2 servos. 4NBL Attack E recommended (Radio not included).
Weight	1200g (2.65 lbs.)		

YS FUTABA MODEL ENGINES

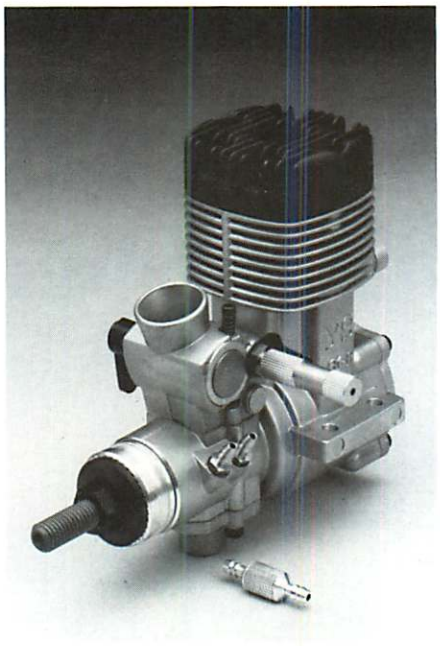


YS·FUTABA 45F·S/45F·R

The YS.Futaba 45F is the answer to the sport flyer's dreams, a high performance engine that is easy to tune and maintain.

Available in side (FS) or rear (FR) exhaust configurations, the YS.Futaba 45 delivers exceptional power for its size and weight.

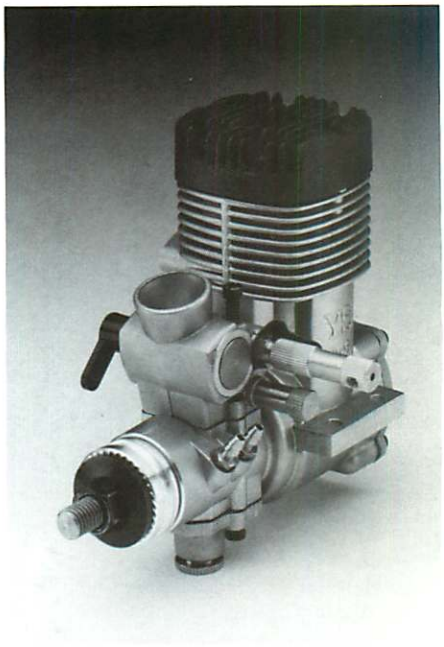
Features include YS.Futaba VPS fuel injection, ABC design, Schneurle porting and integrated carburetor. (Optional YS.Futaba side exhaust muffler available.)



YS·FUTABA 61F·R/61F·S

An evolution of the National Pattern-winning YS.Futaba 60F, the new 61F Long Stroke develops additional torque and thrust to give the serious competition flyer the efficiency to run larger props. The 61F, available in both side and rear exhaust configurations, produces a very flat power band and yields exceptional performance due to its use of the YS.Futaba VPS fuel injection system.

Another important feature of the YS.Futaba 61F is a unique, offset butterfly carburetor, which provides linear throttle response. ABC design, precision CNC machining, adjustable pressure regulator and convenient needle valve adjustment make the 61F Long Stroke a true pattern champion.



YS·FUTABA 61F·S-H/61F·R-H

For the R/C helicopter pilot who wants only the finest, YS.Futaba offers the new 61FH in side (F.S-H) and rear (F.R-H) exhaust versions.

Based on the same championship-winning design of YS.Futaba aircraft engines, the 61FH incorporates a ringed piston for easier starts and cooler operation.

Features include YS.Futaba VPS fuel injection for superior throttle response when hovering. The 61FH is also unaffected by tank position, rolls, loops or inverted flight.

SPECIFICATIONS

45F·S/45F·R

Bore	21.8mm
Stroke	20.0mm
Displacement	7.45cc
Weight	400g
Practical rpm	2,000–18,000

61F·R/61F·S

Bore	23.0mm
Stroke	24.0mm
Displacement	9.97cc
Weight	565g
Practical rpm	2,000-18,000

61F·S-H/61F·R-H

Bore:	23.0mm
Stroke:	24.0mm
Displacement:	9.97cc
Weight:	565g
Practical rpm:	2,000–18,000

120SF

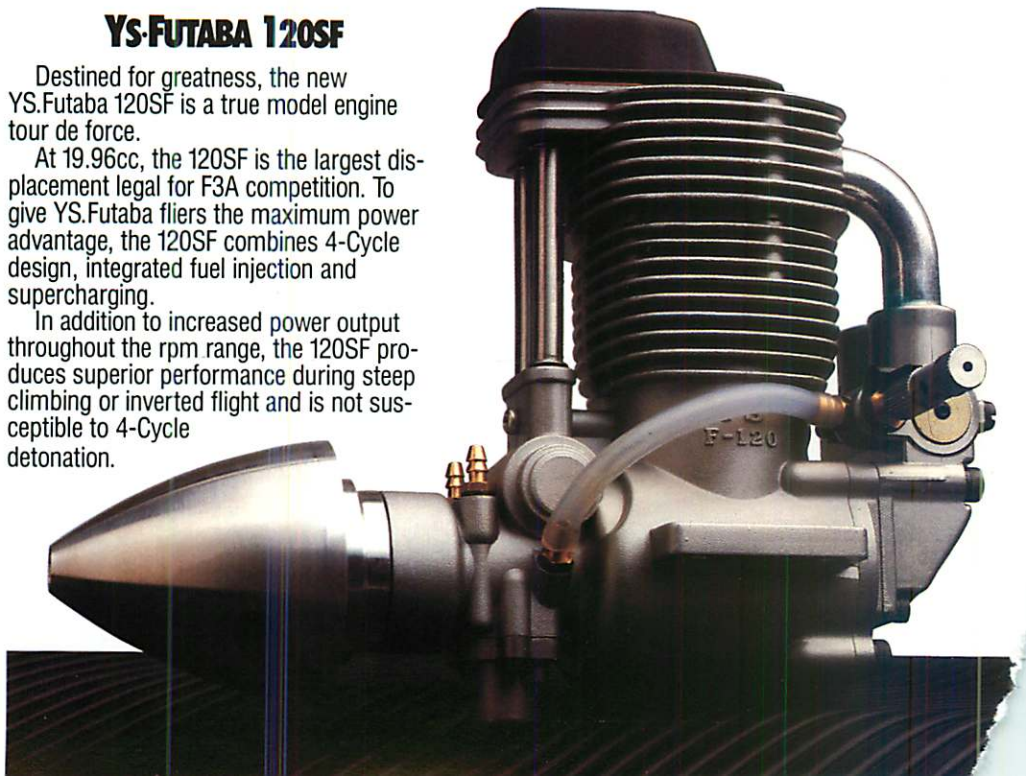
Bore	30.4mm
Stroke	27.5mm
Displacement	19.96cc
Weight	950g
Practical rpm	2,000-12,500

YS·FUTABA 120SF

Destined for greatness, the new YS.Futaba 120SF is a true model engine tour de force.

At 19.96cc, the 120SF is the largest displacement legal for F3A competition. To give YS.Futaba fliers the maximum power advantage, the 120SF combines 4-Cycle design, integrated fuel injection and supercharging.

In addition to increased power output throughout the rpm range, the 120SF produces superior performance during steep climbing or inverted flight and is not susceptible to 4-Cycle detonation.



HATORI MUFFLERS

TUNED PIPES AND MUFFLERS

PART NO.	DESCRIPTION	PRICE
AIRPLANE TUNED PIPE/MUFFLERS		
Y00010	3.5cc Tuned pipe/muffler	42.25
Y00015	7.5cc Tuned pipe/muffler	65.75
Y00020	10cc Tuned pipe/muffler	75.25
Y00025	10cc Tuned pipe/muffler (Bent)	84.50
Y00030	10cc Tuned pipe/muffler (Long Chamber)	75.25
Y00035	10cc Tuned pipe/muffler (Long Chamber/Bent)	84.50
Y00040	15–20cc Tuned pipe muffler	114.75
Y00045	10cc Muffler	56.50
Y00050	7.5cc Scale muffler	51.75
Y00055	7.5cc Scale muffler (side mount)	51.75
Y00060	10cc Scale muffler	56.50
Y00065	10cc Scale muffler (side mount)	56.50
Y00208	YS 1.20 tuned muffler	75.75
CONNECTORS		
Y00090	3.5cc Silicone connector	2.95
Y00095	7.5cc Silicone connector	3.75
Y00100	10cc Silicone connector	4.75
Y00115	7.5cc Header/pipe connector/ Aluminum	20.25
Y00120	10cc Header/pipe connector/ Aluminum	24.50
Y00125	3.5cc Pipe and connector clamps	2.75
Y00130	7.5cc Pipe and connector clamps	2.75
Y00135	10cc Pipe and connector clamps	2.75
Y00150	3.5cc Silicone connector clamp	1.75
Y00155	7.5cc Silicone connector clamp	1.75
Y00160	10cc Silicone connector clamp	1.75
Y00165	7.5cc Connector replacement rings	2.50
Y00170	10cc Connector replacement rings	2.75
Y00175	3.5cc Pipe extender	5.50
Y00180	7.5cc Pipe extender	6.50
Y00185	10cc Pipe extender	7.50
Y00190	3.5–7.5cc Tail pipe	8.50
Y00195	10cc Tail pipe	9.50
Y00200	10cc Tail pipe (short)	9.50
Y00205	3.5–7.5cc Tail pipe (silicone)	5.50
Y00210	10cc Tail pipe (long)	14.95

HEADERS AND MANIFOLDS

PART NO.	DESCRIPTION	PRICE
.21 TO .30		
Y00215	Side Mount/OS.21—25FSR, Enya.21CX, SS.25—.30	16.95
Y00220	Side mount/Enya.21—.25CX	16.95
Y00225	Short radius/OS.21—.25FSR, Enya.21CX, SS.25—.30	16.95
Y00230	Short radius/Enya.21—.25CX	16.95
Y00285	Dash/OS.21—25FSR, Enya.21CX, SS.25—.30	16.95
Y00290	Dash/Enya.21—.25X	16.95
Y00305	Joker/OS.21—.25FSR, Enya.21CX, SS.25—.30	16.95
.40 TO .45		
Y00315	Side mount/OS.40—.45FSR, Enya.40—.49X-CX, YS-Futaba.45FS	18.75
Y00320	Short radius/OS.40—.45FSR, Enya.40—.49X-CX, YS-Futaba.45FS	18.75
Y00325	Cosmos/OS.40—.45FSR, Enya.40—.49X-CX, YS-Futaba.45FS	18.75
Y00330	Arrow/OS.46VF, Enya.45CXL, YS-Futaba.45FR	24.50
Y00335	Arrow/OS.40—.45FSR	25.50
Y00340	Arrow/Enya.40—.49X-CX	25.50
Y00345	Arrow/YS-Futaba.45FS	25.50
Y00360	Curare/OS.40—.45FSR, Enya.40—.49X-CX, YS-Futaba.45FS	18.75
Y00380	Citation/OS.46VF, Enya.45CXL, YS-Futaba.45FR	24.50
Y00410	Dash Five/OS.46VF, Enya.45CXL YS-Futaba.45FR	24.50
Y00415	Aurora/OS.40—.45FSR, Enya.40—.49X-CX, YS-Futaba.45FS	18.75
Y00420	Aurora/OS.46VF, Enya.45CXL, YS-Futaba.45FR	24.50
Y00425	Flash/OS.40–.45FSR, Enya.40–.49X-CX, YS-Futaba.45FS	18.75
Y00430	Supra Fly/OS.40—.45FSR, Enya.40—.49X-CX, YS-Futaba.45FS	18.75
Y00435	Supra Fly/OS.46VF, Enya.45CXL, YS-Futaba.45FR	24.50
.60/.61		
Y00440	Side mount/OS.61FSR, Enya.60X, YS-Futaba.60FS	18.75
Y00445	Short radius/OS.61FRS, Enya.60X, YS-Futaba.60FS	18.75
Y00450	Curare/OS.61FSR, Enya.60X, YS-Futaba.60FS	18.75
Y00455	Arrow/Enya.60X, YS-Futaba.60FR	24.50
Y00460	Arrow/OS.61VF	24.50
Y00465	Arrow/YS-Futaba.60FS	28.25
Y00470	Arrow/OS.61FSR, Enya.60X	28.25
Y00475	Citation/Enya.60X, YS-Futaba.60FR	24.50
Y00480	Citation/OS.61VF	24.50
Y00485	Atlanta/Enya.60X, YS-Futaba.60FR	24.50
Y00490	Atlanta/OS.61VF	24.50
Y00495	Cosmos Aurora/Enya.60X, YS-Futaba.60FR	24.50
Y00500	Cosmos Aurora/OS.61FSR, Enya.60X, YS-Futaba.60FS	24.50
Y00505	Nova Lily/OS.61FSR, Enya.60X, YS-Futaba.60FS	23.50
Y00510	Magic/Enya.60XL, YS-Futaba.60FS	29.95
Y00515	Magic/OS.61VF	29.95
Y00520	Sky Master/Enya.60XL, YS-Futaba.60FR	29.95
Y00525	Sky Master/OS.61VF	29.95

HEADERS AND MANIFOLDS

.60		
Y00530	Omega/OS.61FSR, Enya.60X, YS-Futaba.60FS	22.50
Y00535	Sigma Mk.II/Enya.60XL, YS-Futaba.60FR	29.95
Y00540	Sigma Mk.II/OS.61VF	29.95
Y00560	Atlanta/Rossi R.60	29.95
Y00565	Arrow/Rossi R.60	29.95
Y00570	Magic/Ross R.60	32.95
Y00575	Sky Master/Rossi R.60	32.95
Y00580	Arrow(140mm)/Enya.60XL, YS-Futaba.60FR	24.50
Y00585	Dash Five/Enya.60XL, YS-Futaba.60FR	24.50
Y00590	Dash Five/OS.61VF	24.50
Y00595	Joker/Enya.60XL, YS-Futaba.60FR	24.50
Y00600	Joker/OS.61VF	24.50
Y00605	Supra Fly/OS.61FSR, Enya.60X, YS-Futaba.60FS	20.75
Y00610	Supra Fly/Enya.60X, YS-Futaba.60FR	24.50
Y00615	Supra Fly/OS.61VF	24.50
1.20		
Y00211	Exhaust pipe (outside) YS 120SF	54.95
Y00212	Exhaust pipe (inside) YS-Futaba 120SF	54.95
Y00213	Exhaust pipe (outside) OS120	54.95
Y00214	Exhaust pipe (inside) OS120	54.95

HELICOPTER AND CAR

HELICOPTER TUNED PIPE/MUFFLERS		
Y00070	3.5cc Tuned pipe/muffler	51.75
Y00072	.60 Heli tuned muffler	69.95
Y00074	05.25-2.8 FSR-H Heli muffler (for Shuttle or Baron 20)	27.95
Y00075	10cc Tuned pipe/muffler	108.25
Y00076	08.28-.32/Enya SS30 Heli muffler (for Concept)	27.95
Y00078	Heli tuned muffler adapter	10.95
Y00080	3.5cc Muffler	37.50
Y00092	Heli tuned muffler mting. bracket	1.49
Y00094	Heli tuned muffler mting. clamps	2.95
Y00096	Heli tuned muffler silicone connector	4.95
Y00097	Heli tuned muffler silicone tail pipe	4.49
Y00098	Heli tuned muffler tie wraps	.99
Y00105	Silicone connector	5.50
Y00140	3.5cc pipe and connector clamps	1.95
Y00145	10cc pipe and connector clamps	2.75
HELICOPTER HEADERS		
Y00645	Kalt frame/YS-Futaba.60FSH	32.95
Y00650	Kalt frame/OS.61FSRH, Enya.60XF	32.95
Y00655	Kalt Hirobo frame body/ YS-Futaba.60FRH	32.95
Y00660	Kalt Hirobo frame body/OS.61.VFH	32.95
Y00665	Kalt Hirobo frame body/ Enya.60XLF	32.95
Y00670	Kalt Hirobo body/ YS-Futaba.60FSH	32.95
Y00675	Kalt Hirobo body/OS.61FSRH, Enya.60XF	32.95
Y00680	Fox-60/YS-Futaba.60FSH	32.95
Y00685	Fox-60/OS.61FSRH, Enya.60XF	32.95
Y00690	Baron/OS.28FSRH, Enya SS.30	16.95
Y00695	Shuttle/OS.28FSRH, Enya SS.30	16.95
CAR MUFFLERS AND HEADERS		
Y00085	.21 On/Off road tuned pipe/muffler	28.25
Y00110	.21 On/Off road silicone connector	3.75
Y00245	.21 Road racing/OS.21VF, Enya.21CXL	18.75
Y00296	1:8 Off road	24.50
Y00300	.21 Off road/OS.21FSR, Enya.21CX	24.50

BATTERIES AND CHARGERS

NR-4G (NR-4K)
Lightweight NiCd
2.18" x 1.18" x 0.56"
4.8v/250mAH
2.0 oz.
$19.95

NR-4EA (NR-4EB)
Flat pack NiCd
2.40" x 2.44" x 0.73"
4.8v/500mAH
4.2 oz.
$21.95

NR-4IM (NR-4I)
Extra high power NiCd
2.64" x 2.05" x 1.04"
4.8v/1000mAH
6.7 oz.
$44.95

NR-4LB (J-Series)
Extra high power NiCd
2.21" x 2.65" x 0.59"
4.8v/1000mAH
6.7 oz.
$44.95

NR-4M (NR-4J)
Flat pack NiCd
2.25" x 1.97" x 0.56"
4.8v/500mAH
3.3 oz.
$19.95

NR-4NM (NR-4NB)
High power NiCd
2.40" x 1.81" x 0.67"
4.8v/700mAH
4.4 oz.
$34.95

NR-4QB (Shrink wrap NR-4H)
2.00"x1.12"x1.12"
4.8v/500mAh
3.3 oz.
$19.95

NR-4QM (Shrink wrap NR-4C)
2.00"x1.12"x1.12"
4.8v/500mAh
3.3 oz.
$19.95

Parentheses indicate Power Packs with J-connectors for 3PG/G-Series (FM) / J-Series (PCM)

NR-5
High voltage NiCd
2.87" x 1.97" x 0.59"
6v/500mAH
4.2 oz.
$29.95

NR-5G Lightweight/
High voltage NiCd
2.81"x1.18"x0.56"
6v/250mAh
2.5oz.
$29.95

NR-5PM (NR-5PB)
High voltage flat pack NiCd
3.35" x 1.26" x 0.69"
6v/450mAH
3.1 oz.
$29.95

COMBO PACKS

FBPK-1 Combo pack
2E 72/75MHz
NT-10/NR-4C/FBC-2B
$94.95

FBPK-2 Combo pack
2E 27MHz and 2F
NT-8C/NR-4C/FBC-2A
$79.95

FBPK-4 Combo pack
For 2L NiCd conversion
2-500RSx4/NR-4C/FBC-2A
$79.95

FBPK-5 Receiver NiCd Combo
NR-4I/FBC-5B
$59.95

FBPK-10B Combo pack
For 2NL/Attack
NT-8J/NR-4QB/FBC-8B(4)
$75.95

FBPK-11B Combo pack
For 2PKA/Magnum Jr.
NT-8LP/NR-QB/FBC-8B(4)
$75.95

TRANSMITTER NiCds

NT-8C FN-Series, 2E (27MHz) and 2F systems
Transmitter NiCd
9.6v/500mAH
$36.95

NT-8PBU Magnum 3PG
Transmitter NiCd
9.6v/500mAH
$49.95

NT-8H PCM, J and G series
Transmitter NiCd
9.6v/500mAH
$36.95

NT-8LP 2PKA, 2PD, 3PB, 5UA/F/P, 7UAF/P and 7UHF/P
Transmitter NiCd
9.6v/500mAH
$36.95

NT-8J 2NL Attack
Transmitter NiCd
9.6v/500mAH
$36.95

2-500RS 2L and 4L
Transmitter NiCd sticks
(requires 4)
2-AA NiCds/2.4v/500mAH
$9.95

NT-10 2E (72 and 75MHz)
Transmitter NiCd
12v/500mAH
$59.95

NT-8JY 4NBL, 4NBF and 4NBP
9.6v/500mAH
$44.95

NT-81B 9VA, 9VH, 6NPK and 6NFK
9.6v/500mAH
$44.95

NT-8R 2PBKA and 2PB
Transmitter NiCd
9.6v/500mAH
$49.95

CHARGERS

FBC-1 Receiver NiCd charger
4.8v/45mA
$15.95

FBC-2A Dual charger (110v)
4.8v/45mA and 9.6v/45mA
$24.95

FBC-2B Dual charger (110v)
4.8v/45mA and 12v/45mA
$24.95

FBC-2L Dual charger
J-connectors
4.8v/45mA and 9.6v/45mA
$24.95

FBC-5B Receiver NiCd charger
For NR-4IM (NR-4I)
4.8v/100mA
$17.95

FBC-6B (2) Dual charger
for 9VH system.
9.6v/50mAH and 4.8v/100mAH
$29.95

FBC-6B (4) Dual charger
7UHF/7UHP
9.6v/50mAH and 4.8v/100mAH
$29.95

FBC-8B (1) Dual charger
G-Series AM systems, 3EGX, 4L and (2NL/2PKA)
(NiCd conversions)
Rx standard mini/Tx power plug
4.8v/45mA and 9.6v/45mA
$19.95

FBC-8B (2) Dual charger
PCM/J-Series systems and 3PG
Rx J-Series/Tx DIN plug
4.8v/45mA and 9.6v/45mA
$19.95

FBC-8B (3) Dual charger
2E and 2F NiCd conversions
Rx standard mini/Tx standard mini
4.8v/45mA and 9.6v/45mA
$19.95

FBC-8B (4) Dual charger
G-Series FM systems 2NL/2PKA/2PBKA/2PB/2PD/3PB
4.8v/45mA and 9.6v/45mA
$19.95

GENUINE FUTABA PARTS

SERVO HORNS

DESCRIPTION	PART #	RETAIL
L-shaped	FSH-4L	1.75
Small wheel	FSH-4W	1.75
X-shaped	FSH-4X	1.75
White disc	FSH-5R	1.75
X-shaped large	FSH-5X	1.75
(Above fit all servos except (S10, S14, S20, S25)		
Splined Horn A X-shaped	FSH-6X	1.75
Splined Horn B star	FSH-6S	1.75
Splined Horn C disc	FSH-6R	1.75
Splined Horn D wheel	FSH-6W	1.75
Splined Horn E long arm	FSH-6E	1.75
Splined Horn F small X	FSH-6F	1.75
(Above fit servos S28, S29, S30, S31, S32, S38, S48)		
S20 T-shaped	FSH-20T	1.75
S14 T-shaped	FSH-14T	2.00
S25 Sail arm H	FSH-25H	4.50

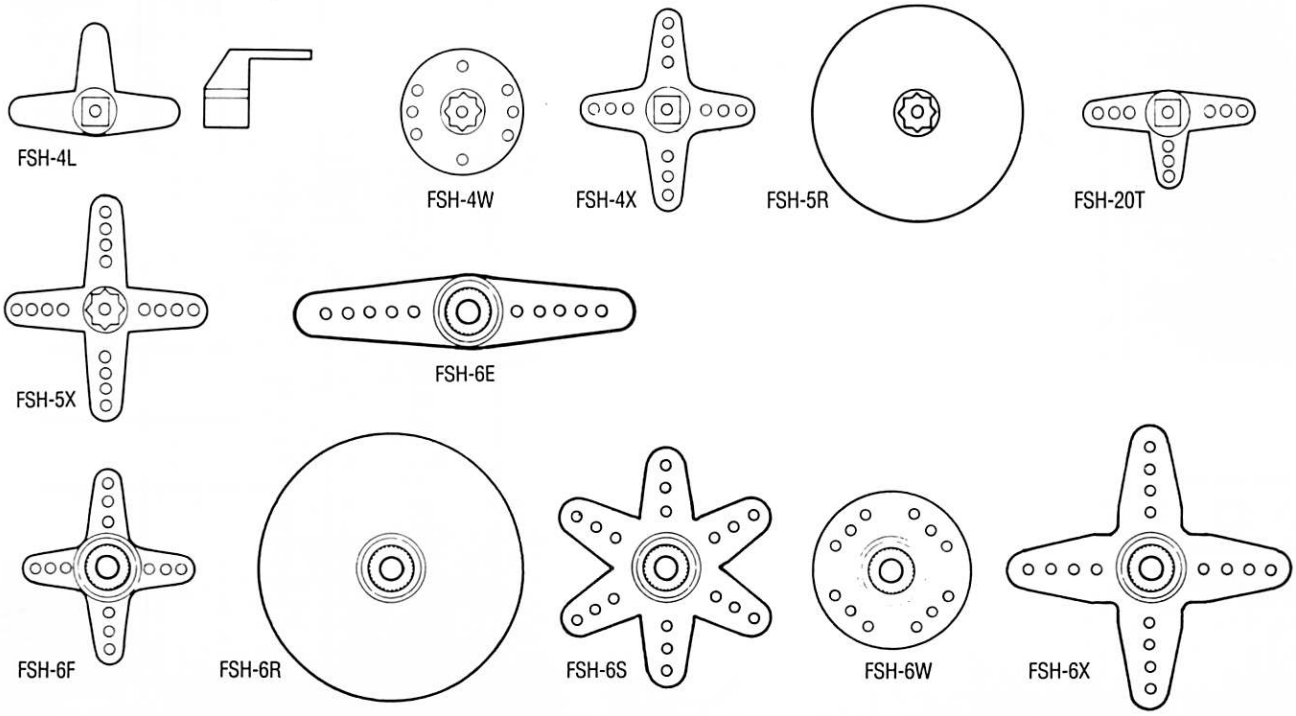
SERVO GEAR SETS

DESCRIPTION	PART #	RETAIL
S6/S17/S18	FGS-6	2.50
S7/S12/S107	FGS-7	2.50
S8	FGS-8	2.50
S10	FGS-10	42.50
S11	FGS-11	3.75
S14	FGS-14	48.50
S15	FGS-15	3.75
S15G	FGS-15G	3.75
S16	FGS-16	3.00
S16G	FGS-16G	3.00
S20	FGS-20	3.75
S21/S121	FGS-21	3.75
S21G/S121G	FGS-21G	5.00
S22	FGS-22	2.50
S23	FGS-23	2.50
S24/S124	FGS-24	2.50
S24H	FGS-24H	3.75
S25	FGS-25	4.25
S26	FGS-26	2.50
S26G	FGS-26G	4.25
S27	FGS-27	2.50
S28/128	FGS-28	3.75
S29/S129	FGS-29	3.75
S30/S130/S5101	FGS-30	3.75
S30G	FGS-30G	4.25
S31S/S131S/ S9201/S9301	FGS-31S	3.75
S31SH/S131SH	FGS-31SH	3.75
S32	FGS-32	3.75
S32H	FGS-32H	3.75
S33	FGS-33	4.25
S33H	FGS-33H	4.25
S34/S34G	FGS-34	3.75
S35S/S9601	FGS-35S	4.95
S36G	FGS-36G	14.95
S38/S138	FGS-38	3.50
S48/S148	FGS-48	3.75
S9101	FGS-9101	3.75

SERVO CASE SETS

DESCRIPTION	PART #	RETAIL
S6	FCS-6	3.75
S7/S8	FCS-7	3.75
S10/S14	FCS-10	8.00
S11	FCS-11	3.75
S12	FCS-12	3.75
S15/S15G	FCS-15	4.75
S16	FCS-16	3.75
S16G	FCS-16G	6.00
S17/S18	FCS-17	3.75
S20	FCS-20	3.75
S21/S121 S21G	FCS-21	3.75
S22	FCS-22	3.75
S23	FCS-23	3.75
S24/S124	FCS-24	3.75
S25	FCS-25	3.75
S26	FCS-26	3.75
S26G/S126G	FCS-26G	3.75
S27	FCS-27	3.75
S28/S128	FCS-28	3.75
S29/S129	FCS-29	3.75
S30/S130/S5101	FCS-30	3.75
S30G	FCS-30G	3.75
S31S/S131S/ S9201/S9301	FCS-31S	3.75
S32/S32H	FCS-32	3.75
S33	FCS-33	3.75
S34	FCS-34	3.75
S35/S135/S9601	FCS-35	3.75
S36/S136	FCS-36	3.75
S38/S138	FCS-38	3.75
S48/S148	FCS-48	3.75

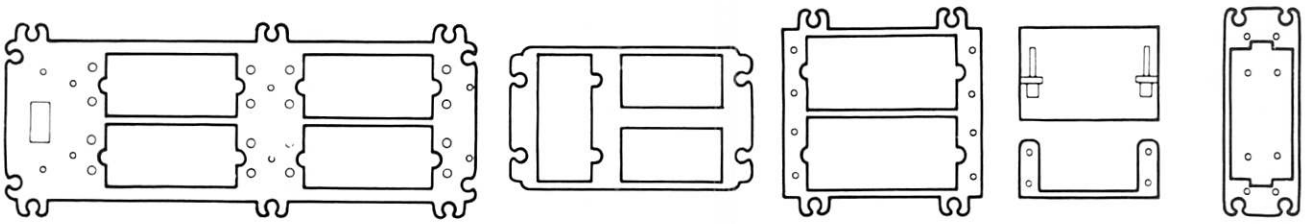
SERVO HORNS (Shown actual size)



GENUINE FUTABA PARTS

SERVO TRAYS

DESCRIPTION	PART #	RETAIL	DESCRIPTION	PART #	RETAIL	DESCRIPTION	PART #	RETAIL
Single/Vertical/S7, S12, S22, S24, S124, S25, S27, S29	FST-4V	2.75	2+1/S16	FST-16T	3.75	2+1/S21, S121 S121H, S30	FST-21T	3.75
Single/Vertical/S11	FST-11V	2.75	Single/Vertical/S16	FST-16V	2.75	Single/Vertical/S21 S121, S121H except S30	FST-21V	2.75
2-by-2/S15	FST-15A	4.00	Side-by-Side/S17, S18 S23, S26	FST-17A	3.25	2-by-2/S28, S31S, S38, S48	FST-28A	4.00
Side-by-Side	FST-15B	3.25	Single/Vertical & Horizontal/S17, S18, S23, S26	FST-17B	3.25	2+1/S28, S31S, S38, S48	FST-28T	3.75
Single/Vertical/S15V	FST-15V	2.75	2+1/S17, S18, S23, S26	FST-17T	3.75	Single/Vertical/S28 S31S, S38, S48	FST-28V	2.75
2-by-2/S16A	FST-16A	3.75	Single/Horizontal/S20	FST-20H	2.75	Single/Vertical/S30, S32	FST-30V	2.75
Single/Vertical & Horizontal/S16	FST-16B	2.75	2+1/S20	FST-20T	3.75			
			Single/Vertical/S20	FST-20V	2.75			
			2-by-2/S21, S121, S121H, S30	FST-21A	4.00			



2-by-2 | 2+1 | Side-by-Side | Single/Horizontal | Single/Vertical

TRANSMITTER ANTENNAS

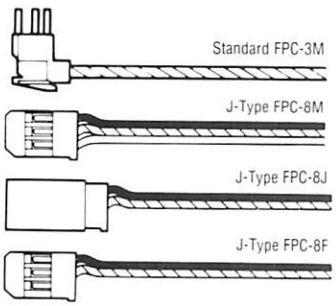
DESCRIPTION	PART #	RETAIL
FN-Series TX Antenna	ANT-1	8.00
T2F Antenna	ANT-2	8.00
T2GS Antenna	ANT-3	7.00
T2GA Antenna	ANT-4	7.00
T2L/2NL/2NCS/2PB 2PKA/2PD/2PKA/3PB 4NBL/4NBF/4NBP Antenna	ANT-5	7.00
T4L/5LK/6NPK/6NFK Antenna	ANT-6	7.00
J-Series Antenna	ANT-7	7.25
G-Series Antenna	ANT-8	7.25
T3PG Antenna (short) 27MHz	ANT-9	10.50
T3PG (short) 72/75 MHz	ANT-10	11.50
T3PG Antenna (long) All freq.	ANT-11	7.25
T9VA/9VH/8SSA/8SSH 7UAF/7UAP/7UHF/7UHP 5UA/5UAF/5UAP	ANT-12	7.25

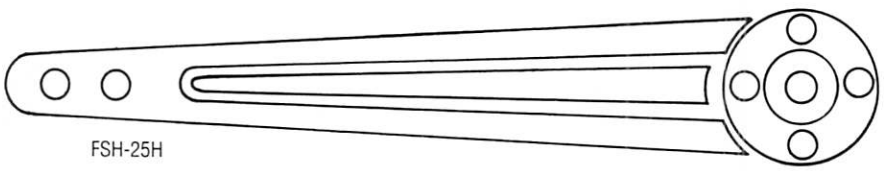
ACCESSORIES

DESCRIPTION	PART #	RETAIL
T4L Shiftgate	FTA-1	2.25
PCM Screwdriver	FTA-2	3.75
T3PG Hand Strap	FTA-3	7.50
G-Series Neck Strap	FTA-4	8.50
FP-4NL Shiftgate	FTA-5	2.25
Clip-on Screwdriver	FTA-6	.95
Dry Cell Holder w/BEC plug	FBB-1	2.95
3PB/2PD Hand Strap	FTA-7	9.00
9VA/9VH Neck Strap	FTA-8	14.00

MINI CONNECTORS

DESCRIPTION	PART #	RETAIL
NR-4C Connector	FPC-3F	4.50
Servo Connector	FPC-3M	4.00
NR-4C/Servo Connector Set	FPC-3MF	7.50
FP-7G Connector Set	FPC-7	4.00
J-Type Nicd Conn.	FPC-8F	4.00
J-Type Female	FPC-8J	4.50
J-Type Servo Conn.	FPC-8M	4.00
J-Type Connectors (Nicd/Servo)	FPC-8MF	7.50





FSH-25H

NOTE: The term "J-TYPE" designates components which use 1520μSec. neutral position and connectors which were first introduced with the J-Type. Standard Series use 1310μSec. neutral and Futaba mini 3 pin connectors.

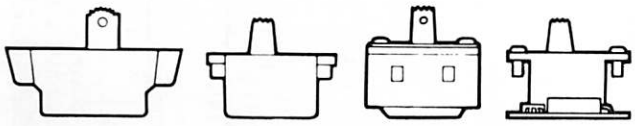
GENUINE FUTABA PARTS

SWITCH HARNESSES / CHARGE CORDS

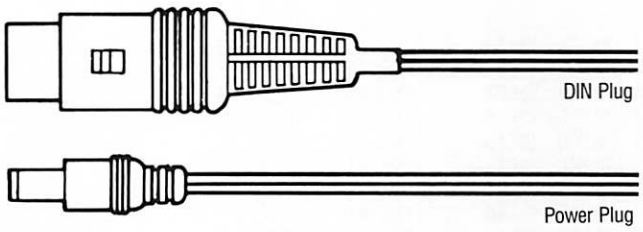
DESCRIPTION	PART #	RETAIL
Switch Harness with charge cord	SWH-1	9.50
Switch Harness without charge cord	SWH-2	9.00
Contest 7 Switch Harness	SWH-4	9.00
J-Type Switch Harness	SWH-5	10.00
Harness with Receiver Dry Battery Holder	SWH-6	9.50
J-Connector Mini Switch Harness	SWH-7	9.50
Mini Switch Harness with charge cord	SWH-8	9.50
J-Mini Switch Harness with charge cord	SWH-9	9.50
Mini Switch with BEC Connector	SWH-10	10.00
J-Mini Switch with BEC Connector	SWH-11	10.00
J-Mini Switch with 2-Pin Connector	SWH-12	9.50
Transmitter Charge Cord	NCC-1	5.00
Receiver Charge Cord	NCC-2	6.75
J-Type Transmitter Charge Cord	NCC-3	6.75
J-Type Receiver Charge Cord	NCC-4	6.75

EXTENSION CORDS

DESCRIPTION	PART #	RETAIL
Rx External Charge Jack	NCC-6	10.00
8 Ch. PCM DSC/ Charge Adaptor	NCC-8	10.00
9VA/9VH PCM, DSC/Charge Adaptor	NCC-9	10.00
3PB DSC cord	NCC-10	6.00
Aileron Extension Cord	AEC-1	6.75
Dual Servo Extension	AEC-2	8.50
J-Type Aileron Extension	AEC-3	6.75
J-Type Dual Servo Extension	AEC-4	13.00
Servo Adaptor J-Type to Standard	AEC-9	6.00
Servo Adaptor Standard to J-Type	AEC-10	6.00
J-Extension, 16" cord	AEC-11	7.25
J-Extension, 1 meter cord	AEC-12	8.00
J-Type Direct Servo Cord	FSC-1	8.50



Standard Magnum Mini Mini Switch With BEC



GENUINE FUTABA PARTS

CRYSTALS SETS

DESCRIPTION	PART #	RETAIL
AM CRYSTAL SETS		
26.995/Brown	FMC-21	12.00
27.045/Red	FMC-22	12.00
27.095/Orange	FMC-23	12.00
27.145/Yellow	FMC-24	12.00
27.195/Green	FMC-25	12.00
27.255/Blue	FMC-26	12.00
72.110 AM CH.16	FMC-116	17.00
72.150 AM CH.18	FMC-118	17.00
72.190 AM CH.20	FMC-120	17.00
72.230 AM CH.22	FMC-122	17.00
72.270 AM CH.24	FMC-124	17.00
72.310 AM CH.26	FMC-126	17.00
72.350 AM CH.28	FMC-128	17.00
72.390 AM CH.30	FMC-130	17.00
72.430 AM CH.32	FMC-132	17.00
72.470 AM CH.34	FMC-134	17.00
72.550 CH.38	FMC-138	17.00
72.590 CH.40	FMC-140	17.00
72.630 CH.42	FMC-142	17.00
72.670 CH.44	FMC-144	17.00
72.710 CH.46	FMC-146	17.00
72.750 CH.48	FMC-148	17.00
72.790 CH.50	FMC-150	17.00
72.830 CH.52	FMC-152	17.00
72.870 CH.54	FMC-154	17.00
72.910 CH.56	FMC-156	17.00
75.430 CH.62	FMC-162	17.00
75.470 CH.64	FMC-164	17.00
75.510 CH.66	FMC-166	17.00
75.550 CH.68	FMC-168	17.00
75.590 CH.70	FMC-170	17.00
75.630 CH.72	FMC-172	17.00
75.670 CH.74	FMC-174	17.00
75.710 CH.76	FMC-176	17.00
75.750 CH.78	FMC-178	17.00
75.790 CH.80	FMC-180	17.00
75.830 CH.82	FMC-182	17.00
75.870 CH.84	FMC-184	17.00
75.910 CH.86	FMC-186	17.00
75.950 CH.88	FMC-188	17.00
75.990 CH.90	FMC-190	17.00
FM CRYSTAL SETS		
50.800 CH.00	FMC-400	28.50
50.840 CH.02	FMC-402	28.50
50.880 CH.04	FMC-404	28.50
50.920 CH.06	FMC-406	28.50
50.960 CH.08	FMC-408	28.50
53.100	FMC-351	31.00
53.200	FMC-352	31.00
53.300	FMC-353	31.00
53.400	FMC-354	31.00
53.500	FMC-355	31.00
53.600	FMC-356	31.00
53.700	FMC-357	31.00
53.800	FMC-358	31.00
72.110 CH.16	FMC-416	28.50
72.150 CH.18	FMC-418	28.50
72.190 CH.20	FMC-420	28.50
72.230 CH.22	FMC-422	28.50
72.270 CH.24	FMC-424	28.50
72.310 CH.26	FMC-426	28.50
72.350 CH.28	FMC-428	28.50
72.390 CH.30	FMC-430	28.50
72.430 CH.32	FMC-432	28.50
72.470 CH.34	FMC-434	28.50
72.550 CH.38	FMC-438	28.50
72.590 CH.40	FMC-440	28.50
72.630 CH.42	FMC-442	28.50
72.670 CH.44	FMC-444	28.50
72.710 CH.46	FMC-446	28.50
72.750 CH.48	FMC-448	28.50
72.790 CH.50	FMC-450	28.50
72.830 CH.52	FMC-452	28.50
72.870 CH.54	FMC-454	28.50

CRYSTAL SETS • HARDWARE

DESCRIPTION	PART #	RETAIL
FM CRYSTAL SETS		
72.910 CH.56	FMC-456	28.50
75.430 CH.62	FMC-462	28.50
75.470 CH.64	FMC-464	28.50
75.510 CH.66	FMC-466	28.50
75.550 CH.68	FMC-468	28.50
75.590 CH.70	FMC-470	28.50
75.630 CH.72	FMC-472	28.50
75.670 CH.74	FMC-474	28.50
75.710 CH.76	FMC-476	28.50
75.750 CH.78	FMC-478	28.50
75.790 CH.80	FMC-480	28.50
75.830 CH.82	FMC-482	28.50
75.870 CH.84	FMC-484	28.50
75.910 CH.86	FMC-486	28.50
75.950 CH.88	FMC-488	28.50
75.990 CH.90	FMC-490	28.50
DUAL CONVERSION FM CRYSTAL SETS		
50.800 CH.00	FMC-800	34.95
50.840 CH.02	FMC-802	34.95
50.880 CH.04	FMC-804	34.95
50.920 CH.06	FMC-806	34.95
50.960 CH.08	FMC-808	34.95
72.030 CH.12	FMC-812	34.95
72.070 CH.14	FMC-814	34.95
72.110 CH.16	FMC-816	34.95
72.150 CH.18	FMC-818	34.95
72.190 CH.20	FMC-820	34.95
72.230 CH.22	FMC-822	34.95
72.270 CH.24	FMC-824	34.95
72.310 CH.26	FMC-826	34.95
72.350 CH.28	FMC-828	34.95
72.390 CH.30	FMC-830	34.95
72.430 CH.32	FMC-832	34.95
72.470 CH.34	FMC-834	34.95
72.550 CH.38	FMC-838	34.95
72.590 CH.40	FMC-840	34.95
72.630 CH.42	FMC-842	34.95
72.670 CH.44	FMC-844	34.95
72.710 CH.46	FMC-846	34.95
72.750 CH.48	FMC-848	34.95
72.790 CH.50	FMC-850	34.95
72.830 CH.52	FMC-852	34.95
72.870 CH.54	FMC-854	34.95
72.910 CH.56	FMC-856	34.95
HARDWARE		
Round servo grommet - 20 pc.	FSH-10	2.25
Servo horn screws & washers	FSH-11	2.00
Square servo grommet - 20 pc.	FSH-20	3.50
Servo eyelett - 20 pc.	FSH-21	2.25
Accessory pkg. for all servos except S15, S16, S20, S10, S14, S25	FSH-26	4.25
Accessory pkg./S15, S15G	FSH-27	2.75
Accessory pkg./S16, S16G	FSH-28	2.75
Accessory pkg./S20	FSH-29	2.75
Servo tray screws/S20	FSH-30	2.25
Servo horn screws & washers/ S21, S22, S23, S25, S26, S27	FSH-31	2.25
Servo mounting screws & washer/All servos	FSH-32	2.25
Accessory pkg./S25	FSH-33	4.50
Servo grommets rectangle - 20 pc./S28, S29, S30, S31, S32	FSH-40	2.75
Servo horn screw - 10 pc./ S28, S29, S30, S31, S32	FSH-41	1.75
Servo Accessory pkg./S28, S30, S31, S32	FSH-42	4.25
Servo Accessory pkg./S29	FSH-43	4.25
S33 horn screw	FSH-44	1.75

FREQUENCY FLAGS

DESCRIPTION	PART #	RETAIL
FREQUENCY FLAGS		
26.995 Brown	FF-821	2.25
27.045 Red	FF-822	2.25
27.095 Orange	FF-823	2.25
27.145 Yellow	FF-824	2.25
27.195 Green	FF-825	2.25
27.255 Blue	FF-826	2.25
53.100 Black/Brown	FF-851	2.25
53.200 Black/Red	FF-852	2.25
53.300 Black/Orange	FF-853	2.25
53.400 Black/Yellow	FF-854	2.25
53.500 Black/Green	FF-855	2.25
53.600 Black/Blue	FF-856	2.25
53.700 Black/Purple	FF-857	2.25
53.800 Black/Grey	FF-858	2.25
"0" Black	FF-900	3.75
"1" Brown	FF-901	3.75
"2" Red	FF-902	3.75
"3" Orange	FF-903	3.75
"4" Yellow	FF-904	3.75
"5" Green	FF-905	3.75
"6" Blue	FF-906	3.75
"7" Purple	FF-907	3.75
"8" Grey	FF-908	3.75
"9" White	FF-909	3.75
Flag Holder	FF-910	3.75
72.030 CH.12	FF-212	3.75
72.070 CH.14	FF-214	3.75
72.110 CH.16	FF-216	3.75
72.150 CH.18	FF-218	3.75
72.190 CH.20	FF-220	3.75
72.230 CH.22	FF-222	3.75
72.270 CH.24	FF-224	3.75
72.310 CH.26	FF-226	3.75
72.350 CH.28	FF-228	3.75
72.390 CH.30	FF-230	3.75
72.430 CH.32	FF-232	3.75
72.470 CH.34	FF-234	3.75
72.550 CH.38	FF-238	3.75
72.590 CH.40	FF-240	3.75
72.630 CH.42	FF-242	3.75
72.670 CH.44	FF-244	3.75
72.710 CH.46	FF-246	3.75
72.750 CH.48	FF-248	3.75
72.790 CH.50	FF-250	3.75
72.830 CH.52	FF-252	3.75
72.870 CH.54	FF-254	3.75
72.910 CH.56	FF-256	3.75
75.430 CH.62	FF-262	3.75
75.470 CH.64	FF-264	3.75
75.510 CH.66	FF-266	3.75
75.550 CH.68	FF-268	3.75
75.590 CH.70	FF-270	3.75
75.630 CH.72	FF-272	3.75
75.670 CH.74	FF-274	3.75
75.710 CH.76	FF-276	3.75
75.750 CH.78	FF-278	3.75
75.790 CH.80	FF-280	3.75
75.830 CH.82	FF-282	3.75
75.870 CH.84	FF-284	3.75
75.910 CH.86	FF-286	3.75
75.950 CH.88	FF-288	3.75
75.990 CH.90	FF-290	3.75
50.800 Black/Blue #00	FF-800	3,75
50.840 Black/Red #02	FF-802	3.75
50.880 Black/Yellow #04	FF-804	3.75
50.920 Black/Blue #06	FF-806	3.75
50.960 Black/Grey #08	FF-808	3.75

1990 **Futaba** Systems Price List

SYSTEM	PART NO./FREQ.	SERVOS	RECEIVER	COMMENTS	RETAIL
9VA	9VAP5101DN72	S5101(4)	R129DP		999.95
9 Channel	9VAP5101DN72I	S5101(4)	R129DP	Mode I	999.95
PCM 1024	9VAP5101DN50	S5101(4)	R129DP		999.95
Aircraft	9VAP5101DN50I	S5101(4)	R129DP	Mode I	999.95
	9VAP9101DN72	S9101(4)	R129DP		1079.95
	9VAP9101DN72I	S9101(4)	R129DP	Mode I	1079.95
	9VAP9101DN50	S9101(4)	R129DP		1079.95
	9VAP9101DN50I	S9101(4)	R129DP	Mode I	1079.95
9VH	9VHP9201DN72	S9201(5)	R129DP	1000mAh	1199.95
9 Channel	9VHP9201DN72I	S9201(5)	R129DP	1000mAh / Mode I	1199.95
PCM 1024	9VHP9201DN50	S9201(5)	R129DP	1000mAh	1199.95
Helicopter	9VHP9201DN50I	S9201(5)	R129DP	1000mAh / Mode I	1199.95
8SSA	8SSA5101DN72	S5101(4)	R128DP		999.95
8 Channel PCM	8SSA5101DN50	S5101(4)	R128DP		999.95
Single Stick	8SSA9201DN72	S9201(4)	R128DP		1079.95
Aircraft	8SSA9201DN50	S9201(4)	R128DP		1079.95
8SSH	8SSH9201DN72	S9201(5)	R128DP	1000mAh	1179.95
8 Channel PCM Single Stick Helicopter	8SSH9201DN50	S9201(5)	R128DP	1000mAh	1179.95
7UAP	7UAP148DN72	S148(4)	R129DP		699.95
7 Channel	7UAP148DN72I	S148(4)	R129DP	Mode I	699.95
PCM 1024	7UAP148DN50	S148(4)	R129DP		699.95
Aircraft	7UAP148DN50I	S148(4)	R129DP	Mode I	699.95
7UAF	7UAF148DN72	S148(4)	R128DF		499.95
7 Channel	7UAF148DN72I	S148(4)	R128DF	Mode I	499.95
FM	7UAF148DN50	S148(4)	R128DF		499.95
Aircraft	7UAF148DN50I	S148(4)	R128DF	Mode I	499.95
7UHP	7UHP5101DN72	S5101(5)	R129DP	1000mAh	799.95
7 Channel	7UHP5101DN72I	S5101(5)	R129DP	1000mAh / Mode I	799.95
PCM 1024	7UHP5101DN50	S5101(5)	R129DP	1000mAh	799.95
Helicopter	7UHP5101DN50I	S5101(5)	R129DP	1000mAh / Mode I	799.95
7UHF	7UHF5101DN72	S5101(4)	R128DF	1000mAh	649.95
7 Channel	7UHF5101DN72I	S5101(4)	R128DF	1000mAh / Mode I	649.95
FM	7UHF5101DN50	S5101(4)	R128DF	1000mAh	649.95
Helicopter	7UHF5101DN50I	S5101(4)	R128DF	1000mAh / Mode I	649.95
6NPK	6NPK148DN72	S148(4)	R127DP		459.95
6 Channel	6NPK148DN72I	S148(4)	R127DP	Mode I	459.95
PCM	6NPK148DN50	S148(4)	R127DP		459.95
	6NPK148DN50I	S148(4)	R127DP	Mode I	459.95
6NFK	6NFK148DN72	S148(4)	R127DF		329.95
6 Channel	6NFK148DN72I	S148(4)	R127DF	Mode I	329.95
FM	6NFK148DN50	S148(4)	R127DF		329.95
	6NFK148DN50I	S148(4)	R127DF	Mode I	329.95
6NHP	6NHP148DP72	S148(4)	R128DP		599.95
6 Channel	6NHP148DP72I	S148(4)	R128DP	Mode I	599.95
PCM	6NHP148DP50	S148(4)	R128DP		599.95
Helicopter	6NHP148DP50I	S148(4)	R128DP	Mode I	599.95
5NLH	5NLH148DN72	S148(4)	R128DF		399.95
5 Channel	5NLH148DN72I	S148(4)	R128DF	Mode I	399.95
FM	5NLH148DN50	S148(4)	R128DF		399.95
Helicopter	5NLH148DN50I	S148(4)	R128DF	Mode I	399.95
5UAP	5UAP148DN72	S148(4)	R129DP		499.95
5 Channel	5UAP148DN72I	S148(4)	R129DP	Mode I	499.95
PCM 1024	5UAP148DN50	S148(4)	R129DP		499.95
	5UAP148DN50I	S148(4)	R129DP	Mode I	499.95
5UAF	5UAF148DN72	S148(4)	R128DF		399.95
5 channel	5UAF148DN72I	S148(4)	R128DF	Mode I	399.95
FM	5UAF148DN50	S148(4)	R128DF		399.95
	5UAF148DN50I	S148(4)	R128DF	Mode I	399.95
5UA	5UA148HN72	S148(4)	R117H		349.95
5 Channel	5UA148HN72I	S148(4)	R117H	Mode I	349.95
AM	5UA148HN75	S148(4)	R117H	Surface	349.95
4NBP	4NBP148DN72	S148(3)	R124DP		359.95
4 Channel	4NBP148DN72I	S148(3)	R124DP	Mode I	359.95
PCM	4NBP148DN50	S148(3)	R124DP		359.95
	4NBP148DN50I	S148(3)	R127DP	Mode I	359.95

SYSTEM	PART NO./FREQ.	SERVOS	RECEIVER	COMMENTS	RETAIL
4NBF	4NBF148DN72	S148(3)	R127DF		249.95
4 Channel	4NBF148DN72I	S148(3)	R127DF	Mode I	249.95
FM	4NBF148DN50	S148(3)	R127DF		249.95
	4NBF148DN50I	S148(3)	R127DF	Mode I	249.95
4NBL/Attack	4NBL148HN72	S148(3)	R114H		244.95
4 Channel	4NBL148HN72I	S148(3)	R114H	Mode I	244.95
Standard	4NBL148HN75	S148(3)	R114H	Surface	244.95
4NBL/Attack	4NBL133HN72	S133(2)	R114H	250mAh	259.95
4 Channel	4NBL133HN72I	S133(2)	R114H	250mAh / Mode I	259.95
Glider					
4NBL/Attack	4NBL133MN72	S133(2)	MCR-4A		299.95
4 Channel	4NBL133MN72I	S133(2)	MCR-4A	Mode I	299.95
Electrics					
3EGX	3EGX31SLN27	S31S(2)	R3L	Tx NiCd	449.95
3 Channel	3EGX31SFN75	S31S(2)	R3F	Tx NiCd	449.95
Dual Stick					
Boats					
3PB/Magnum	3PB9301IN75	S9301(2)	R113IP	Tx NiCd	499.95
3 Channel	3PB9601IN75	S9601(2)	R113IP	Tx NiCd	499.95
PCM 1024	3PB132HIN75	S132H(2)	R113IP	Tx NiCd	449.95
Pistol Grip					
2PD/Magnum	2PD9301J27	S9301(2)	R102JE		299.95
2 Channel	2PD9301J75	S9301(2)	R102JE		299.95
AM	2PD9601J27	S9601(2)	R102JE		299.95
Pistol Grip	2PD9601J75	S9601(2)	R102JE		299.95
	2PD132HJ27	S132H(2)	R102JE		249.95
	2PD132HJ75	S132H(2)	R102JE		249.95
2PBKA/Junior	2PBKA148J27	S148(2)	R102JE		159.95
2 Channel	2PBKA148J75	S148(2)	R102JE		159.95
AM	2PBKA132HJ27	S132H(2)	R102JE		189.95
Pistol Grip	2PBKA132HJ75	S132H(2)	R102JE		189.95
	2PBKA148MJ27	S148(1)	R102JE	MC112B(1)	199.95
	2PBKA148MJ75	S148(1)	R102JE	MC112B(1)	199.95
	2PBKA132HMJ27	S132H(1)	R102JE	MC112B(1)	214.95
	2PBKA132HMJ75	S132H(1)	R102JE	MC112B(1)	214.95
2PB/Sport	2PB148J27	S148(2)	R102JE		119.95
2 Channel	2PB148J75	S148(2)	R102JE		119.95
AM	2PB148MJ27	S148(1)	R102JE	MC112B(1)	169.95
Pistol Grip	2PB148MJ75	S148(1)	R102JE	MC112B(1)	169.95
2NBR/Attack R	2NBR148J27	S148(2)	R102JE		114.95
2 Channel	2NBR148J72	S148(2)	R102JE	Aircraft	114.95
AM	2NBR148J75	S148(2)	R102JE		114.95
Dual Stick					
2NCS/Attack Sport	2NCS148J72	S148(2)	R102JE	Aircraft	89.95
	2NCS148J75	S148(2)	R102JE		89.95
Candy/Pre-assembled RC Boats					
	2P-C-27	Includes 2P148GR27 system installed			259.95
	2NBL-MC-C-27N	Includes 2NBL system w/MC112B and 7.2vNiCd			349.95
	2P-MC-C-27N	Includes 2P system w/MC112B and 7.2vNiCd			364.95
FX10/1:10 Scale All-Terrain RC Offroad Car Kit					
	FX10-000	Complete kit (Requires radio system and NiCd)			129.95
YS.Futaba Model Engines					
	YS0010	YS45 side exhaust/airplane			179.95
	YS0020	YS45 rear exhaust/airplane			179.95
	YS0055	YS61 side exhaust/helicopter			354.95
	YS0065	YS61 rear exhaust/helicopter			354.95
	YS0070	YS120 S/4 stroke, supercharged/aircraft			529.95
	YS0080	YS61 long stroke/side exhaust			349.95
	YS0090	YS61 long stroke/rear exhaust			349.95
Hirobo/Futaba (ARF electric kits require 4NBL133MN system and 7.2v NiCd)					
	H901	Chipmunk ARF electric/aerobatic plane kit			239.95
	H902	Professor ARF electric/trainer plane kit			209.95

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Futaba Corporation of America
4 Studebaker, Irvine, CA 92718 (714) 455-9888

RC GLOSSARY

PCM/Pulse Code Modulation
PCM is the most advanced form of radio signal transmission available for radio controlled models. First introduced to American hobbyists by Futaba, PCM uses digitally encoded signals to reduce interference. PCM 1024 is Futaba's exclusive, second generation system, which offers the ultimate in servo resolution and response.

FM/Frequency Modulation
FM systems vary the frequency of the signal wave for improved resistance to interference.

AM/Amplitude Modulation
AM systems, most commonly used for surface models, use this radio signal system which varies signal amplitude.

Dual Rate
Dual rates are used to electronically reduce servo throw with full control stick or wheel throw.

Exponential
Exponential rates provide non-linear servo response and are used to reduce servo sensitivity close to neutral without reducing throw.

Trainer System
Futaba trainer systems let two transmitters to be linked with an optional trainer cord, allowing an instructor to take over control at the flick of a switch. (New 4FG/6FG are trainer compatible with J-Series mini connector systems. Older 4FG and 6FG systems with standard mini connectors are not compatible.)

NiCd/Nickel Cadmium
Rechargeable Nickel Cadmium power packs are standard equipment in many Futaba systems and are available as an optional accessory for most others.

ATV/Adjustable Travel Volume
Frequently referred to as end point adjustment, ATV lets you preset the maximum travel of a servo either side of neutral.

AFR/Adjustable Function Rate
Similar to ATV, AFR allows end point adjustment independent of dual rate or exponential settings.

DSC/Direct Servo Controller
Using the DSC feature you can operate the servos in your system without transmitter power. This is ideal for field or pit checking your radio while others are operating on the same frequency.

Mixing
Mixing allows the simultaneous operation of two or more servos with one control input.

Please respect the FCC regulations regarding band use. Surface models are only to be operated on approved 27 and 75MHz frequencies, aircraft only on 50, 53 and 72MHz.

ONE YEAR WARRANTY

FUTABA Digital Proportional R/C Systems are warranted to the original purchaser for one full year from the date of purchase against defects in material and workmanship. During this period Futaba will repair or replace, at our discretion, the defective component.

This warranty does not apply to any unit which has been improperly installed, handled, abused, damaged in a crash, nor to any unit which has been repaired or altered by unauthorized agencies. Under no circumstances will the buyer be entitled to consequential or incidental damages. This Limited Warranty gives you specific legal rights; you may also have other rights which vary from state to state. Batteries and plastic housings are not covered by warranty.

THIS WARRANTY APPLIES ONLY TO SYSTEMS PURCHASED AND USED IN THE CONTINENTAL UNITED STATES, HAWAII AND ALASKA.

Futaba®
Futaba Corporation of America
4 Studebaker / Irvine, CA / 92718
(714) 455-9888

FCA-0490